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Economics and Statistics Administration
BUREAU OF THE CENSUS

1990 CPH-4-28

1990 Census of
Population and Housing
Population and Housing
Characteristics for
Congressional Districts
of the 103rd Congress
Montana

CENSUS '90



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J. Antonio Villamil, Under Secretary
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County			
Place and [In Selected States]		American Indian Area	
County Subdivision [10,000 or More Persons]			

HOW TO USE THIS CENSUS REPORT

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INTRODUCTION

Data from the 1990 census are presented in several different report series. These series are published under the following three subject titles:

1. 1990 Census of Population (1990 CP)
2. 1990 Census of Housing (1990 CH)
3. 1990 Census of Population and Housing (1990 CPH)

The types of data and the geographic areas shown in reports differ from one series to another. In most series, there is one report for each State, the District of Columbia, Puerto Rico, and the Virgin Islands of the United States (Virgin Islands), plus a United States summary report. Some series include reports for American Indian and Alaska Native areas, metropolitan areas, and urbanized areas. See appendix F for detailed information about the various report series; additional 1990 census data products such as computer tapes, microfiche, and laser disks; other related materials; and sources of assistance.

The data from the 1990 census were derived from a limited number of basic questions asked of the entire population and about every housing unit (referred to as the 100-percent questions), and from additional questions asked of a sample of the population and housing units (referred to as the sample questions). Two primary versions of questionnaires were used: a short form containing only the 100-percent questions and a long form containing both the 100-percent questions and the additional sample questions. Appendix E presents facsimiles of the questionnaire pages and the respondent instructions used to collect the data included in this report. Appendix F lists the subjects that are covered by the 100-percent and sample components of the 1990 census.

Legal provision for this census, which was conducted as of April 1, 1990, was made in the Act of Congress of August 31, 1954 (amended August 1957, December 1975, and October 1976), which is codified in Title 13, United States Code.

HOW TO FIND GEOGRAPHIC AREAS AND SUBJECT-MATTER DATA

This report includes a table finding guide to assist the user in locating those statistical tables that contain the data that are needed. The table finding guide lists alphabetically, by geographic area, the subjects shown in this report. To determine which tables in this report show data for a particular topic, find the subject in the left-hand column of the table finding guide and then look across the columns using the headings at the top for the desired type of geographic area. Below is an example of a table finding guide.

TABLE FINDING GUIDE

Subjects by Type of Geographic Area and Table Number

Subjects covered in this report are shown on the left side, and types of geographic areas are shown at the top. For a description of area classifications, see appendix A. For definitions and explanations of subject characteristics, see appendix B. Table numbers without reference letters in parentheses indicate data for the total population only. Data by race and Hispanic origin are indicated with reference letters in parentheses after the table numbers. Reference letters for population counts and subjects by race and Hispanic origin follow:

- (A) White; Black; American Indian, Eskimo, or Aleut; Asian or Pacific Islander; Hispanic origin; White, not of Hispanic origin.
 (B) American Indian, Eskimo, Aleut, All Asian, Chinese, Filipino, Japanese, Asian Indian, Korean, Vietnamese, Cambodian, Hmong, Laotian, Thai, All Pacific Islander, Hawaiian, Samoan, Guamanian.
 (C) Mexican, Puerto Rican, Cuban, Other Hispanic origin, Dominican, Central American, Guatemalan, Honduran, Nicaraguan, Panamanian, Salvadoran, South American, Colombian, Ecuadorian, Peruvian.
 (D) Race by Hispanic origin.

Subject	The State		County		Place and (in selected States) county subdivision ²		American Indian and Alaska Native area ²
	Total	Urban, rural, size of place, and rural farm ¹	Total	Rural or rural farm	10,000 or more	2,500 to 9,999	
Age	20, 34, 65(B)	20, 58(A)	95, 106(A)	169, 171	135(A)	151	173(A)
Ancestry	17, 31	17	82	...	121	150	...
Disability	20, 34, 84(C)	20, 57(A)	95, 107(A)	...	136(A)	152	174(A)
Educational attainment	22, 36	22, 57(A)	97, 107(A)	169, 171	136(A)	160(A)	174(A)
Household type and relationship	21, 35	21, 58(A)	96, 106(A)	169, 171	135(A)	160(A)	173(A)
Industry	26, 40, 67(B)	26, 58(A)	101, 106(A), 119(B)	170, 172	137(A), 148(C)	161(A), 167(C)	175(A)
Poverty status	29, 43, 72(B)	29, 63(A)	104, 113(A), 117(B)	170, 172	142(A), 148(C)	162(A), 168(C)	180(A)
Residence in 1995	23, 37, 67(B)	23, 60(A)	98, 110(A)	...	138(A)	155	177(A)
Veteran status	23, 37, 69(B)	23, 60(A)	98, 110(A)	...	138(A)	155	177(A)
Work status in 1989	27, 41, 69(B)	27, 60(A)	102, 110(A)	...	138(A)	155	177(A)

... Not applicable.

¹Type of residence categories are less detailed in tables 56-64 (which show characteristics by race and Hispanic origin) than in other tables.

²The selected States are Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin.

³Characteristics are shown only for the American Indian, Eskimo, or Aleut population.

Tables identified in the table finding guide with a reference letter in parentheses after the table number present characteristics for racial groups or persons of Hispanic origin. The tables without reference letters contain data for the total population only. The table finding guide does not include cross-classifications of subject-matter items, nor does it distinguish among tables presenting data for all persons or housing units and tables presenting data for subgroups (for example, persons under 18 years or renter-occupied housing units) unless it is necessary to locate the subject.

Additional information to locate data within specific reports often is provided in the headnote at the top of the table finding guide and in the footnotes at the bottom of the guide.

HOW TO USE THE STATISTICAL TABLES

Parts of a Statistical Table

The census data included in printed reports are arranged in tables. Each table includes four major parts: (1) *heading*, (2) *boxhead*, (3) *stub*, and (4) *data field*.

A typical census report table is illustrated below.

PARTS OF A STATISTICAL TABLE									
Table number and title			Headnote			Column head			
Table 1. Latin American Characteristics: 1990			Persons of Hispanic or Latin American origin, by race, sex, age, and marital status, 1990			Total			
Heading			Stubhead			Boxhead			
Total			Total			Total			
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- The prefix "r" indicates that the count has been revised since publication of 1980 reports or that the area was erroneously omitted or not shown in the correct geographic relationship in the 1980 census reports. This symbol appears only in the 1990 CPH-2, *Population and Housing Unit Counts* reports.
- A dagger "†" next to the name of a geographic area indicates that there has been a geographic change(s) (for example, an annexation or detachment, a new incorporation, or a name change) since the information published for the 1980 census for that area. This symbol appears only in the 1990 CPH-2, *Population and Housing Unit Counts* reports. The geographic change information for the entities in a State is shown in the "User Notes" section of 1990 CPH-2, *Population and Housing Unit Counts* report, for that State. The information for all States appears in the "User Notes" section of the technical documentation for Summary Tape Files 1 and 3.
- A plus sign "+" or a minus sign "-" following a figure denotes that the median falls in the initial or terminal category of an open-ended distribution. (For more information on medians, see the discussion under "Derived Measures" in appendix B.)
- A minus sign "-" preceding a figure denotes decrease.

The following geographic abbreviations are used in the tables and explanations of subjects covered in this report:

- A "(pt.," next to the name of a geographic area in a hierarchical presentation indicates that the geographic entity is only partially located in the superior geographic entity. For example, a "(pt.," next to a place name in a county subdivision-place hierarchy indicates that the place is located in more than one county subdivision. (Places also may be "split" by county, congressional district, urban/rural, metropolitan area, voting district, and other geographic boundaries, depending on the presentation.) Other geographic entities also can be "split" by a higher-level entity. The exception is a tabulation block, which is unique within all geographic entities in census products.
- BG is block group.
- BNA is block numbering area.
- CDP is census designated place.
- CMSA is consolidated metropolitan statistical area.
- MA is metropolitan area.
- MSA is metropolitan statistical area.
- PMSA is primary metropolitan statistical area.
- TDSA is tribal designated statistical area.
- TJSA is tribal jurisdiction statistical area.
- unorg. is unorganized territory.

- VTD is voting district.

Census tables often include derived measures such as medians, means, percents, and ratios. More detailed information about derived measures is provided in appendix B.

GRAPHICS

Charts, statistical maps, and other graphic summaries are included in some 1990 census reports. If graphics are shown in a report, they are presented immediately after the "User Notes" section.

USER NOTES

User notes include corrections, errata, and related explanatory information. This section appears directly before the statistical tables in census reports unless graphics are shown. It presents information about unique characteristics of the report and changes or corrections made too late to be reflected in the text or tables themselves.

CONTENTS OF THE APPENDICES

Appendix A—Provides definitions of the types of geographic areas and related information used in census reports.

Appendix B—Contains definitions for the subject-matter items used in census reports, including explanations of derived measures, limitations of the data, and comparability with previous censuses. The subjects are listed alphabetically. In reports that contain both population and housing characteristics, the population characteristics are described first, followed by the explanations of the housing subjects.

Appendix C—Provides information on confidentiality of the data, allocations and substitutions, and sources of errors in the data.

Appendix D—Explains the residence rules used in counting the population and housing units, presents a brief overview of data collection operations, and describes processing procedures used to convert data from unedited questionnaires to final 1990 publications and tapes. This appendix also clarifies the procedures used to collect data for persons abroad at the time of the census, where persons on military bases or away at school were counted, how data were collected for persons in institutions, and which citizens of foreign countries were included in the U.S. data.

Appendix E—Presents a facsimile of the 1990 census questionnaire pages and the respondent instructions used to collect the data in this report.

Appendix F—Summarizes the 1990 census data products program by describing the information available in printed reports and in other sources, such as microfiche or computer tape; and provides information on where to obtain assistance.

Appendix G—Contains maps depicting the geographic areas shown in this report.

TABLE FINDING GUIDE

Subjects by Type of Geographic Area and Table Number

[Subjects covered in this report are shown on the left side, and types of geographic areas are shown at the top. Tables 1 through 12 show 100-percent characteristics. Tables 13 through 32 show sample characteristics. For a description of area classifications, see appendix A. For definitions and explanations of subject characteristics, see appendix B]

Subject	State and congressional district	County	Place and (in selected States) county subdivision (10,000 or more) ¹	American Indian and Alaska Native area
POPULATION CHARACTERISTICS				
Age	1, 2, 17*	2	2	6
Voting age persons.....	1, 2, 17*	2	2	6
Ancestry	13	...	...	...
Citizenship	13, 14	...	...	...
Class of worker	15	...	...	...
Disability	14, 21	21	21	...
Educational attainment.....	14, 17*, 19	19	19	23
Family type and presence of own children	13, 17*, 18	18	18	...
Fertility.....	13	...	...	...
Group quarters.....	1, 4	4	4	...
Hispanic origin.....	1, 3, 17*	3	3	...
Household type and relationship	1, 4	4	4	...
Income in 1989	16, 17*, 22	22	22	23
Industry	15	...	...	...
Labor force status.....	15, 17*, 20	20	20	23
For persons 16 to 19 years by school enrollment and educational attainment.....	15, 17*	...	...	...
Labor force status in 1989—				
Weeks and hours worked	15, 20	20	20	...
Land area	1, 5	5	5	...
Language spoken at home and ability to speak English.....	14, 18	18	18	...
Marital status	13	...	...	...
Means of transportation to work	14, 20	20	20	...
Nativity.....	13, 14, 18	18	18	...
Occupation	15	...	...	...
Period of military service	14	...	...	...
Place of birth	14, 18	18	18	...
Population density.....	5	5	5	...
Poverty status in 1989	16, 17*, 22	22	22	23
Race	1, 3, 17*	3	3	...
Residence in 1985	14, 18	18	18	...
School enrollment and type of school	14, 17*, 19	19	19	23
Sex.....	1, 3, 17*, 20	3, 20	3, 20	6
Urban, rural, and farm residence (persons).....	13	...	...	...
Veteran status	14, 19	19	19	...
Workers in family in 1989	15	...	...	...

... Not applicable for this report.

* Data for table 17 are shown for White; Black; American Indian, Eskimo, or Aleut; Asian or Pacific Islander; and Hispanic origin.

¹The selected States are: Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin.

TABLE FINDING GUIDE

Subjects by Type of Geographic Area and Table Number

[Subjects covered in this report are shown on the left side, and types of geographic areas are shown at the top. Tables 1 through 12 show 100-percent characteristics. Tables 13 through 32 show sample characteristics. For a description of area classifications, see appendix A. For definitions and explanations of subject characteristics, see appendix B]

Subject	State and congressional district	County	Place and (in selected States) county subdivision (10,000 or more) ¹	American Indian and Alaska Native area
HOUSING CHARACTERISTICS				
Age of householder	26	...	...	...
Bedrooms	24, 29	29	29	...
Condominium status	26, 29	29	29	...
Contract rent	7, 10	10	10	12
Gross rent	26, 28*, 31	31	31	32
Hispanic origin of householder	11, 28*	11	11	...
House heating fuel	25, 30	30	30	...
Household income in 1989	26, 27	...	...	...
Household type and relationship .....	...	...	...	12
Householder 65 years and over	25	...	...	...
Kitchen facilities	25, 29	29 ¹	29	...
Land area .....	...	...	...	12
Meals included in rent	10	10	10	...
Mortgage status and selected monthly owner costs	27, 28*, 31	31	31	32
Persons per room	7, 8, 25	8	8	...
Persons in unit	26	...	...	...
Persons per unit	9, 10	9, 10	9, 10	...
Plumbing facilities	25, 28*, 29	29	29	32
Race of householder	11, 28*	11	11	...
Rooms	7, 8, 9, 10	8, 9, 10	8, 9, 10	...
Sewage disposal	25, 29	29	29	...
Source of water	25, 29	29	29	...
Telephone in unit	25, 30	30	30	...
Tenure	9, 10, 28*	9, 10	9, 10	12, 32
Tenure by race and Hispanic origin of householder	7	...	...	...
Units in structure	7, 8, 9, 10, 24	8, 9, 10	8, 9, 10	...
Vacancy characteristics	7, 8	8	8	...
Value	7, 9	9	9	12
Vehicles available	25, 28*, 30	30	30	32
Year householder moved into unit	26, 31	31	31	...
Year structure built	24, 29	29	29	...

... Not applicable for this report.

* Data for table 28 are shown for White householder; Black householder; American Indian, Eskimo, or Aleut householder; Asian or Pacific Islander householder; and householder of Hispanic origin.

¹The selected States are: Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin.

USER NOTES

Additional information concerning this 1990 census product may be available at a later date. If you wish to receive these *User Notes*, contact:

Data User Services Division
Customer Services
Bureau of the Census
Washington, DC 20233
301-763-4100

Questions concerning the content of this report may be directed to:

Housing and Household Economic Statistics Division
Bureau of the Census
Washington, DC 20233

Population Division
Bureau of the Census
Washington, DC 20233

ADDITIONAL DEFINITIONS AND EXPLANATIONS OF DATA

GENERAL

User Note 1

Age Reporting—Review of detailed 1990 information indicated that respondents tended to provide their age as of the date of completion of the questionnaire, not their age on April 1, 1990. In addition, there may have been a tendency for respondents to round up their age if they were close to having a birthday. It is likely that approximately 10 percent of persons in most age groups are actually 1 year younger. For most single years of age, the misstatements are largely offsetting. The problem is most pronounced at age 0 because persons lost to age 1 may not have been fully offset by the inclusion of babies born after April 1, 1990, and because there may have been more rounding up to age 1 to avoid reporting age as 0 years. (Age in completed months was not collected for infants under age 1.)

The reporting of age 1 year older than age on April 1, 1990, is likely to have been greater in areas where the census data were collected later in 1990. The magnitude of this problem was much less in the three previous

censuses where age was typically derived from respondent data on year of birth and quarter of birth. (For more information on the design of the age question, see the discussion on comparability under "Age" in appendix B.)

User Note 2

The user should note that there are limitations to many of these data. Please refer to the text provided with this report for further explanations on the limitations of the data.

User Note 3

This report series (CPH-4) includes 100-percent and sample data for population and housing characteristics. Tables 1 through 6 present data on general population characteristics based on tabulations of 100-percent data and tables 7 through 12 show 100-percent housing data. Tables 13 through 23 show sample data on social and economic characteristics and tables 24 through 32 show sample housing data.

User Note 4

Congressional districts of the 103rd Congress reflect boundaries based on the 1990 census for all States except Maine, where redistricting occurs in 1993. Court or legislative action may change congressional district boundaries in any State for subsequent Congresses during the decade. The Census Bureau will issue revised CPH-4 reports for any State undergoing further redistricting action based on the 1990 census.

User Note 5

Estimated population and housing unit totals based on tabulations from only the sample questionnaires (sample tabulations) may differ from the official counts as tabulated from every census questionnaire (100-percent tabulations). Such differences result, in part, because the sample tabulations are based on information from a sample of households rather than from all households (sampling error). Differences also can occur because the interview situation (length of questionnaire, effect of the interviewer, etc.) and the processing rules differ between the 100-percent and sample tabulations. These types of differences are referred to as nonsampling errors. (For more information on nonsampling error, see appendix C.)

The 100-percent data are the official counts and should be used as the source of information on population and housing items collected on the 100-percent questionnaire, such as age, race, Hispanic origin, number of rooms, and tenure. This is especially appropriate when the primary focus is on counts of the population or housing units for small areas such as census tracts/BNA's, block groups, and for American Indian and Alaska Native areas. For estimates of counts of persons and housing units by characteristics asked only on a sample basis (such as education, labor force status, income, and source of water), the sample estimates should be used within the context of the error associated with them.

Many users are interested in tabulations of items collected on the sample cross-classified by items collected on a 100-percent basis such as age, race, sex, Hispanic origin, and housing units by tenure. Given the way the weights were applied during sample tabulations, generally, there is exact agreement between sample estimates and 100-percent counts for total population and total housing units for most geographic areas. At the State level and higher geographic levels, sample estimates and 100-percent counts for population by age, sex, race, and Hispanic origin and for housing units by tenure, number of rooms and so on would be reasonably similar and, in some cases, the same.

At smaller geographic levels, including census tract/BNA, there is still general agreement between 100-percent counts and sample estimates of total population or housing units. At smaller geographic levels, however, there will be expected differences between sample estimates and 100-percent counts for population by age, sex, race, and Hispanic origin and for housing units by tenure, number of rooms and so on. In these cases, users may want to consider using derived measures (such as means and medians) or percent distributions. Whether using absolute numbers or derived measures for small population groups and for a small number of housing units in small geographic areas, users should be cautioned that the sampling error associated with these data may be large.

Even though the differences between sample estimates and 100-percent counts for these categories are generally small, the differences for the American Indian, as well as the Hispanic origin populations, are relatively larger than for other groups. The following provides some explanation for these differences.

State-level sample estimates of the number of American Indians are generally higher than the corresponding 100-percent counts. It appears the differences are primarily the result of proportionately higher reporting of "Cherokee" tribe on sample questionnaires. This phenomenon occurs primarily in off-reservation areas. The reasons for the greater reporting of Cherokee on sample forms are not fully known at this time. The Census Bureau will do research to provide more information on this phenomenon.

For the Hispanic origin population, sample estimates at the State level are generally lower than the corresponding 100-percent counts. The majority of difference is caused by the 100-percent and sample processing of the Hispanic question on the sample questionnaire when the respondent did not mark any response category. When processing the sample, written entries in race or Hispanic origin as well as responses to questions only asked on the sample, such as ancestry and place of birth. These procedures led to a lower proportion of persons being assigned as Hispanic in sample processing than were assigned during 100-percent processing. The Census Bureau will evaluate the effectiveness of the 100-percent and sample procedures.

As in previous censuses, the Census Bureau will evaluate the quality of the data and make this information available to data users. In the meanwhile, both 100-percent and sample data serve very important purposes and, therefore, should be used within the limitations of the sampling and nonsampling errors.

User Note 6

Data presented in tables 27 and 31 for "Median selected monthly owner costs as a percentage of household income in 1989" (With a mortgage), "Median selected monthly owner costs as a percentage of household income in 1989" (Not mortgaged), and "Median gross rent as a percentage of household income in 1989" are inconsistent with the explanations for derived measures in appendix B. Specifically, when the median falls in the lower interval of the tabulation distribution, the estimated value obtained by linear interpolation is shown rather than the upper value of the category followed by a minus sign (-). The lower interval has an assumed range of 0.0 to 19.9 percent.

Table 1. General Characteristics of Persons: 1990

[For definitions of terms and meanings of symbols, see text]

State	One Representative at Large	
Congressional District	The State	
LAND AREA		
Square kilometers	376 990.9	376 990.9
Square miles	145 556.3	145 556.3
RACE AND HISPANIC ORIGIN		
All persons	799 065	799 065
White	741 111	741 111
Black	2 381	2 381
American Indian, Eskimo, or Aleut	47 679	47 679
Asian or Pacific Islander	4 259	4 259
Other race	3 635	3 635
Hispanic origin (of any race)	12 174	12 174
White, not of Hispanic origin	733 878	733 878
AGE		
All persons	799 065	799 065
Under 5 years	59 257	59 257
5 to 9 years	65 377	65 377
10 to 14 years	62 899	62 899
15 to 19 years	54 813	54 813
20 to 24 years	47 769	47 769
25 to 34 years	123 070	123 070
35 to 44 years	126 756	126 756
45 to 54 years	82 306	82 306
55 to 64 years	68 321	68 321
65 to 74 years	60 884	60 884
75 to 84 years	34 937	34 937
85 years and over	10 676	10 676
3 and 4 years	24 815	24 815
16 years and over	599 749	599 749
18 years and over	576 961	576 961
21 years and over	544 258	544 258
60 years and over	140 813	140 813
62 years and over	126 919	126 919
Median age	33.8	33.8
Female		
All persons	403 296	403 296
Under 5 years	28 848	28 848
5 to 9 years	31 884	31 884
10 to 14 years	30 536	30 536
15 to 19 years	27 340	27 340
20 to 24 years	23 520	23 520
25 to 34 years	62 555	62 555
35 to 44 years	62 537	62 537
45 to 54 years	40 798	40 798
55 to 64 years	34 835	34 835
65 to 74 years	32 431	32 431
75 to 84 years	20 551	20 551
85 years and over	7 461	7 461
3 and 4 years	12 026	12 026
16 years and over	306 380	306 380
18 years and over	295 480	295 480
21 years and over	279 585	279 585
60 years and over	78 029	78 029
62 years and over	70 853	70 853
Median age	34.6	34.6
Male		
All persons	395 769	395 769
Median age	33.1	33.1
VOTING-AGE PERSONS		
Persons 18 years and over	576 961	576 961
Male	281 481	281 481
Female	295 480	295 480
White	542 595	542 595
Black	1 500	1 500
American Indian, Eskimo, or Aleut	27 799	27 799
Asian or Pacific Islander	2 797	2 797
Other race	2 270	2 270
Hispanic origin (of any race)	7 058	7 058
HOUSEHOLD TYPE AND RELATIONSHIP		
All persons	799 065	799 065
In households	775 318	775 318
Householder	306 163	306 163
Family householder	211 666	211 666
Nonfamily householder	94 497	94 497
Male	44 793	44 793
Living alone	36 000	36 000
Female	49 704	49 704
Living alone	44 491	44 491
Spouse	176 526	176 526
Child	245 733	245 733
Grandchild	7 198	7 198
Other relatives	11 273	11 273
Nonrelatives	28 425	28 425
Institutionalized persons	11 125	11 125
Other persons in group quarters	12 622	12 622
Persons per household	2.53	2.53
Persons per family	3.08	3.08
Persons 65 years and over		
All persons	106 497	106 497
In households	98 882	98 882
Householder	69 523	69 523
Family householder	33 112	33 112
Living alone	32 208	32 208
Male	8 192	8 192
Female	24 016	24 016
Spouse	25 044	25 044
Other relatives	3 368	3 368
Nonrelatives	947	947
Institutionalized persons	7 279	7 279
Other persons in group quarters	336	336

Table 2. Age: 1990

[For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	Age										
	Under 5 years	5 to 16 years	18 years and over	20 to 24 years	25 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	75 years and over	85 years and over
All persons	799 065	599 749	576 961	32 703	37 308	249 826	82 306	34 005	34 316	106 497	45 613
The State	799 065	599 749	576 961	32 703	37 308	249 826	82 306	34 005	34 316	106 497	45 613
One Representative of Large COUNTY											
Bernhardt County	8 424	6 283	6 083	470	482	2 485	1 886	371	302	1 067	511
Blaine County	1 678	1 318	1 250	229	200	1 882	1 628	276	298	1 889	888
Broadwater County	3 318	2 465	2 494	92	81	2 363	1 777	149	149	1 543	208
Butte County	1 223	932	932	35	35	1 045	874	38	38	1 045	143
Central County	1 350	1 142	1 117	111	148	2 415	1 818	129	72	2 281	28
Cascade County	6 368	58 087	55 135	2 952	4 118	24 543	8 012	3 430	3 242	9 638	4 215
Chouteau County	77 491	4 085	3 913	127	156	1 565	534	277	303	933	1 021
Custer County	386	4 457	4 457	50	46	3 576	1 244	124	146	1 502	355
Daniels County	103	1 772	1 688	50	46	3 576	1 244	124	146	1 502	217
Dawson County	636	7 162	6 877	372	320	2 804	1 997	459	492	1 433	645
Deer Lodge County	9 505	10 135	10 135	70	83	2 890	1 310	165	185	2 460	492
Fallon County	1 308	2 264	2 154	200	185	2 890	1 310	165	185	2 460	352
Fergus County	4 783	9 188	8 861	347	361	3 282	1 207	575	683	2 406	1 146
Glacier County	3 511	3 511	3 511	4 897	4 897	17 197	6 520	2 211	2 272	4 486	3 790
Gallatin County	50 433	59 321	56 199	4 847	4 847	17 197	6 520	2 211	2 272	4 486	3 790
Garfield County	1 389	1 161	1 108	31	51	4 444	1 157	73	85	2 627	114
Golden Valley County	12 171	8 023	7 625	435	562	3 510	1 111	417	430	1 160	471
Golden Valley County	12 171	8 023	7 625	435	562	3 510	1 111	417	430	1 160	471
Granite County	2 548	1 669	1 870	72	71	705	314	117	121	470	192
Hill County	17 654	12 749	12 243	770	860	5 451	1 585	682	759	2 136	909
Jefferson County	140	1 771	1 701	251	257	2 470	1 260	116	125	406	212
Johns Bonanza County	2 282	1 404	1 701	251	257	2 470	1 260	116	125	406	212
Lake County	21 041	15 368	14 692	1 782	1 825	5 663	2 128	994	993	3 307	323
Liberty County	4 295	3 340	3 340	1 945	1 948	15 963	5 203	1 119	1 119	5 312	337
Lincoln County	17 481	12 821	12 252	526	579	5 341	2 074	808	782	2 142	796
McCone County	148	1 693	1 619	64	64	1 648	121	126	121	375	164
McPherson County	119	1 398	1 335	57	42	1 531	188	109	93	315	107
Meagher County	1 819	1 398	1 335	57	42	1 531	188	109	93	315	107
Mineral County	225	2 435	2 334	95	85	991	393	175	175	420	33
Missoula County	5 815	3 207	3 065	412	570	2 696	742	216	258	1 361	62
Missoula County	5 815	3 207	3 065	412	570	2 696	742	216	258	1 361	62
Park County	1 023	1 209	1 079	371	432	4 940	1 512	655	676	2 293	989
Phillips County	385	3 371	3 402	13	18	1 472	357	228	236	797	340
Pondera County	6 433	4 649	4 460	176	225	5 774	622	306	312	1 043	489
Powder River County	2 090	1 584	1 514	66	70	1 996	219	103	103	348	134
Prairie County	1 383	1 109	1 056	42	22	2 336	146	71	89	350	58
Pringle County	1 383	1 109	1 056	42	22	2 336	146	71	89	350	58
Reynolds County	1 642	18 959	18 159	792	749	6 944	2 997	1 208	1 319	4 150	1 753
Roosevelt County	10 099	7 494	7 120	395	458	3 302	1 950	431	374	2 625	1 119
Rosebud County	10 505	7 065	6 670	369	408	3 496	999	353	306	2 799	294
Sandwich County	4 232	2 775	2 488	112	112	2 488	448	281	281	1 028	468
Sheridan County	33 941	26 426	25 503	1 464	1 634	9 827	3 547	1 588	1 653	5 790	2 617
Silver Bow County	476	4 904	4 713	177	175	1 960	695	798	158	1 798	522
Sweet Grass County	1 383	1 109	1 056	42	22	2 336	146	71	89	350	58
Teton County	412	4 638	4 447	207	169	1 668	695	288	302	1 118	527
Toole County	5 046	3 730	3 569	126	154	1 491	528	229	222	819	318
Valley County	8 239	6 250	5 990	251	254	2 343	879	437	439	1 387	153
Wheatland County	2 246	1 703	1 637	66	79	569	225	129	107	462	196
Yellowstone County	113 52	85 478	82 544	4 680	5 392	37 091	11 672	4 869	4 842	13 999	1 865
Yellowstone National Park	5	42	42	3	3	18	5	6	6	1	—

Table 2. Age: 1990—Con.

[For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	All persons	Age												
		Under 5 years	16 years and over	18 years and over	18 to 20 years	21 to 24 years	25 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	75 years and over	85 years and over	Median age
		One Representative at Large—Con.												
		PLACE AND COUNTY SUBDIVISION												
Alameda-Deer Lodge County.....	10 278	574	8 265	7 887	470	436	2 798	1 049	511	583	2 040	839	1 167	38.3
Bauman city.....	81 151	6 036	62 394	60 330	3 585	4 328	26 350	8 015	3 430	9 617	1 053	4 067	1 255	25.7
Battle-Silver Bow (remainder).....	33 336	2 271	25 948	25 052	1 436	1 604	9 645	3 497	1 571	1 616	5 683	2 585	282	35.9
Butte city.....	55 097	4 139	42 029	40 636	2 007	2 689	16 963	5 504	2 339	2 519	8 015	3 508	1 191	32.9
Great Falls city.....	24 569	1 666	19 169	18 504	1 210	1 216	8 053	2 684	934	960	3 447	1 609	440	32.9
Helena city.....	11 917	830	9 247	8 965	3 425	511	3 619	1 033	1 468	556	2 353	2 248	382	30.9
Kalispell city.....	10 319	2 800	7 917	7 637	424	462	3 550	1 137	409	387	1 068	391	74	30.9
Orchard Homes CDP.....	33 941	2 300	26 426	25 503	1 464	1 634	9 827	3 547	1 588	1 653	5 790	2 617	522	32.6
Butte-Silver Bow.....														

Table 3. Sex, Race, and Hispanic Origin: 1990

[For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	Sex		Race					Not of Hispanic origin						
	All persons	Male	Female	White	Black	American Indian, Eskimo, or Aleut	Asian or Pacific Islander	Other race	Hispanic origin (of any race)	White	Black	American Indian, Eskimo, or Aleut	Asian or Pacific Islander	Other race
The State	799 065	395 769	403 296	741 111	2 381	47 679	4 259	3 635	12 174	733 878	2 242	46 475	4 123	173
One Representative at Large	799 065	395 769	403 296	741 111	2 381	47 679	4 259	3 635	12 174	733 878	2 242	46 475	4 123	173
COUNTY														
Beaverhead County	8 424	4 260	4 164	8 194	8	121	29	72	133	8 138	8	116	29	—
Big Horn County	11 337	5 588	5 749	4 916	18	2 289	46	68	294	4 801	16	600	46	—
Blaine County	3 318	1 689	1 629	1 624	1	2 844	5	13	33	2 834	1	2 834	5	—
Broadwater County	3 897	4 183	4 183	7 977	3	42	5	41	90	3 235	1	42	17	2
Carbon County	1 503	775	728	7 977	3	42	2	41	12	1 480	—	9	—	—
Carter County	1 503	775	728	7 977	3	42	2	41	12	1 480	—	9	—	—
Cascade County	77 691	38 295	39 396	72 345	1 061	3 072	792	421	1 398	71 569	1 018	2 921	751	34
Chouteau County	5 452	2 782	2 670	5 221	4	212	5	5	25	5 205	—	210	8	—
Custer County	11 115	5 777	5 338	11 198	12	196	18	64	163	11 024	—	191	26	—
Daniels County	2 246	1 115	1 131	2 242	—	—	18	—	12	2 230	—	6	18	—
Dawson County	9 505	4 712	4 793	9 376	—	83	28	18	64	9 341	—	72	28	—
Deer Lodge County	5 076	2 502	2 574	5 005	29	260	157	62	157	4 744	29	259	13	—
Fergus County	12 083	5 921	6 162	11 922	10	121	13	17	72	11 874	—	115	13	—
Flathead County	59 218	29 316	29 902	57 897	56	880	240	145	616	57 447	55	867	225	—
Gallatin County	25 816	12 403	13 413	24 913	80	686	448	146	593	24 315	—	380	14	—
Garfield County	1 589	816	773	1 583	—	—	—	—	—	1 583	—	4	—	—
Glass County	12 121	5 985	6 136	5 238	10	6 823	10	19	78	5 244	11	6 773	10	—
Grover County	1 455	705	750	1 455	—	—	4	2	9	1 455	—	—	4	—
Granite County	2 548	1 325	1 223	2 521	—	21	—	—	9	2 514	—	21	4	—
Hill County	17 654	8 788	8 866	14 729	19	2 769	92	45	176	14 646	19	2 726	86	—
Jefferson County	7 939	4 029	3 910	7 780	5	119	15	21	83	7 765	—	17	15	—
Judith Basin County	21 041	10 501	10 540	16 411	15	4 498	32	85	402	16 270	14	4 313	31	—
Lewis and Clark County	23 179	24 316	24 316	45 991	69	1 059	242	134	576	45 597	63	1 014	233	—
Lincoln County	17 481	8 777	8 704	17 103	11	282	11	31	197	16 945	11	273	54	—
McCone County	1 164	1 112	1 112	2 256	1	17	2	24	10	2 246	1	17	12	—
McIntosh County	3 907	2 076	1 831	3 907	—	43	12	—	88	3 819	—	88	12	—
Meigs County	1 819	942	877	1 789	—	—	—	—	24	1 774	—	17	—	—
Mineral County	3 315	1 669	1 646	3 204	3	79	72	7	41	3 174	3	74	22	—
Missoula County	38 687	19 688	19 000	37 650	185	1 818	836	198	962	37 017	172	1 068	81	—
Park County	14 562	7 100	7 462	14 227	69	113	69	84	232	14 091	60	120	66	—
Pendleton County	5 519	2 706	2 813	5 516	—	—	—	—	4	5 516	—	—	—	—
Pink Shovel County	2 243	1 112	1 131	2 243	—	—	—	—	—	2 243	—	—	—	—
Pondera County	3 198	1 598	1 599	3 225	5	704	20	13	31	3 200	5	701	20	—
Powder River County	2 090	1 061	1 029	2 044	3	37	3	6	20	2 030	3	37	23	—
Pringle County	1 363	715	648	1 361	22	233	23	43	16	1 348	22	115	4	—
Ravalli County	25 010	12 320	12 690	24 528	36	287	72	87	369	24 256	34	278	71	—
Richmond County	10 116	5 320	4 796	10 445	5	440	25	102	240	10 305	—	529	40	—
Sandwich County	8 669	4 377	4 292	8 135	12	471	37	31	104	8 038	12	459	12	—
Silver Bow County	6 653	3 326	3 326	6 653	33	520	138	224	810	32 500	32	469	125	—
Stillwater County	3 261	1 636	1 625	3 261	5	52	10	35	92	3 261	5	48	8	—
Teton County	3 113	1 560	1 553	3 113	3	93	9	12	37	3 113	3	92	9	—
Toole County	2 486	1 250	1 236	2 486	5	118	16	7	36	2 486	5	118	16	—
Valley County	8 274	4 135	4 139	8 274	9	77	16	18	46	8 274	9	758	19	—
Wheatland County	2 246	1 133	1 113	2 203	1	19	8	15	22	2 196	1	19	8	—
Yellowstone County	602	289	313	602	51	3 225	61	140	3 124	106 065	465	3 082	604	—
Yellowstone National Park	113 52	54 25	59 27	107 952	—	—	—	—	—	106 065	—	—	—	—

Table 3. Sex, Race, and Hispanic Origin: 1990—Con.

[For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [in Selected States] County Subdivision [10,000 or More Persons]	Sex		Race						Not of Hispanic origin						
	All persons	Male	Female	Other race						Hispanic origin (of any race)					
				White	Black	American Indian, or Alutic	Asian or Pacific Islander	Other race	White	Black	American Indian, or Alutic	Asian or Pacific Islander	Other race		
One Representative at Large—Con. PLACE AND COUNTY SUBDIVISION															
Alameda-Dieter Lodge County.....	10 278	5 076	5 202	9 905	29	2 260	22	62	9 816	29	250	21	5		
Billings city.....	81 151	38 718	42 433	76 738	459	2 569	72	926	75 327	397	2 443	472	31		
Butte city.....	21 560	10 608	10 952	21 742	69	398	350	101	21 598	37	380	124	10		
Butte-Silver Bow (remainder).....	33 557	16 502	17 055	31 240	52	321	18	326	31 222	30	340	104	1		
Great Falls city.....	55 097	26 406	28 691	51 301	531	2 549	458	258	50 779	513	2 422	433	24		
Heure city.....	10 201	4 955	5 246	9 313	15	790	165	18	9 245	15	763	61	1		
Missoula city.....	42 918	20 772	22 146	40 983	148	1 045	622	120	40 635	137	978	610	7		
Missoula city—CDP.....	11 917	5 474	6 443	11 586	17	220	48	26	11 503	17	219	62	5		
Polson city.....	11 917	5 474	6 443	11 586	17	220	48	26	11 503	17	219	62	5		
Polson city—CDP.....	42 918	20 772	22 146	40 983	148	1 045	622	120	40 635	137	978	610	7		
Butte-Silver Bow.....	33 941	16 653	17 288	33 025	33	1 045	138	224	32 950	32	469	125	5		

Table 4. Household, Family, and Group Quarters Characteristics: 1990

[For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	Family households					Nonfamily households				Persons per—		Persons in group quarters		
	Persons in households	All households	Total	Married- couple family	Female house- holder, no husband present	Householder living alone				House- hold	Family	Total	Institu- tional- ized per- sons	Other persons in group quarters
						Total	Total	Total	Female					
The State.....	775 318	306 163	211 666	176 526	26 397	94 497	80 491	32 208	24 016	2.53	3.08	23 747	11 125	12 622
One Representative at Large.....	775 318	306 163	211 666	176 526	26 397	94 497	80 491	32 208	24 016	2.53	3.08	23 747	11 125	12 622
COUNTY														
Beaverhead County.....	8 061	3 211	2 156	1 828	246	1 055	887	364	236	2.51	3.11	363	99	264
Big Horn County.....	11 210	3 448	2 739	2 040	536	709	633	264	194	3.25	3.72	127	98	29
Blaine County.....	6 568	2 379	1 702	1 286	302	677	627	276	210	2.76	3.33	160	74	86
Broadwater County.....	3 280	1 280	921	796	89	359	315	165	115	2.56	3.07	38	38	—
Carbon County.....	7 990	3 269	2 288	1 970	229	981	896	481	336	2.44	2.98	90	90	—
Cartier County.....	1 484	589	409	372	26	180	169	100	70	2.52	3.14	19	19	—
Cascade County.....	75 578	30 133	21 037	17 419	2 788	9 096	7 909	3 067	2 307	2.51	3.05	2 113	787	1 326
Chouteau County.....	5 304	2 064	1 518	1 351	121	546	509	251	167	2.57	3.07	148	148	—
Custer County.....	11 294	4 631	3 095	2 563	421	1 536	1 355	644	471	2.44	3.03	403	356	47
Daniels County.....	2 221	919	635	557	47	284	268	148	109	2.42	3.00	45	45	—
Dawson County.....	9 361	3 691	2 617	2 295	241	1 074	980	468	362	2.54	3.10	144	144	—
Deer Lodge County.....	9 418	4 060	2 654	2 175	377	1 406	1 318	683	500	2.32	2.95	860	629	231
Fallon County.....	3 077	1 166	864	787	57	302	278	140	98	2.64	3.15	26	26	—
Fergus County.....	11 445	4 603	3 211	2 817	285	1 392	1 272	653	501	2.49	3.05	638	425	213
Fleetshead County.....	58 366	22 834	16 386	13 944	1 826	6 448	5 503	2 093	1 584	2.56	3.05	852	678	174
Gallatin County.....	47 617	19 015	12 332	10 520	1 302	6 683	4 594	1 271	1 011	2.50	3.03	2 846	287	2 559
Garfield County.....	1 575	577	434	391	25	143	139	64	48	2.73	3.24	14	14	—
Glacier County.....	11 568	3 816	2 886	2 082	598	930	829	340	241	3.03	3.55	553	99	454
Golden Valley County.....	807	330	230	208	12	100	92	48	30	2.45	2.97	105	—	105
Granite County.....	2 526	1 051	708	615	61	343	312	162	104	2.40	2.99	22	22	—
Hill County.....	16 956	6 426	4 490	3 653	633	1 936	1 681	642	496	2.64	3.23	698	221	477
Jefferson County.....	7 674	2 867	2 168	1 909	186	699	614	238	154	2.68	3.14	265	264	—
Judith Basin County.....	2 211	908	657	596	33	251	241	121	88	2.44	2.93	71	71	—
Lake County.....	20 480	7 714	5 586	4 552	861	2 128	1 884	897	626	2.62	3.10	561	317	244
Lewis and Clark County.....	46 109	18 649	12 610	10 233	1 828	6 039	5 229	1 738	1 332	2.47	3.05	1 386	591	795
Liberty County.....	2 032	788	558	504	46	230	222	118	92	2.50	3.20	263	38	225
Lincoln County.....	17 353	6 668	4 005	4 202	480	1 763	1 554	607	429	2.60	3.08	128	109	19
McCone County.....	2 238	846	644	589	28	200	191	100	75	2.65	3.13	38	38	—
Madison County.....	2 977	1 287	1 641	1 451	122	746	673	311	226	2.43	2.99	192	72	120
Meagher County.....	1 696	709	478	429	31	231	207	114	65	2.39	2.94	123	20	103
Mineral County.....	3 263	1 282	903	762	98	379	327	127	82	2.55	3.06	52	26	26
Missoula County.....	75 975	30 782	19 847	16 097	2 921	10 935	8 403	2 415	1 867	2.47	3.05	2 712	865	1 847
Musselshell County.....	4 004	1 661	1 110	994	86	551	512	292	209	2.41	3.02	102	43	59
Park County.....	13 811	5 619	3 761	3 224	406	1 858	1 575	718	528	2.46	2.99	751	244	507
Petroleum County.....	519	209	155	138	9	54	48	26	15	2.48	2.93	—	—	—
Phillips County.....	5 006	1 931	1 354	1 148	146	577	518	265	203	2.59	3.16	157	82	75
Ponderosa County.....	5 916	2 246	1 632	1 435	149	614	570	264	200	2.63	3.20	517	164	353
Powder River County.....	2 053	805	586	531	38	219	208	92	64	2.55	3.08	37	37	—
Powell County.....	5 461	2 234	1 527	1 319	145	707	639	299	208	2.44	3.02	1 159	1 155	4
Prairie County.....	1 366	568	409	376	18	159	153	88	57	2.40	2.89	17	17	—
Ravalli County.....	24 566	9 698	7 045	6 161	632	2 653	2 322	1 156	829	2.53	3.01	444	166	278
Richland County.....	10 587	3 956	2 909	2 546	268	1 047	960	414	317	2.68	3.21	129	128	1
Roosevelt County.....	10 847	3 694	2 774	2 001	564	920	842	354	258	2.94	3.44	152	149	3
Rosebud County.....	10 365	3 479	2 629	2 104	369	850	746	229	154	2.98	3.50	140	86	54
Sanders County.....	4 430	1 899	1 339	1 182	107	1 020	921	450	294	2.53	3.09	75	75	—
Sheridan County.....	4 630	1 899	1 339	1 182	107	560	521	282	211	2.44	2.97	102	99	3
Silver Bow County.....	33 245	13 899	9 025	7 284	1 316	4 874	4 431	2 145	1 619	2.39	3.05	696	413	283
Stillwater County.....	8 594	3 397	2 377	2 098	188	697	607	307	227	2.56	3.05	86	86	—
Sweet Grass County.....	3 103	1 281	872	797	52	409	380	214	155	2.42	3.03	51	51	—
Teton County.....	5 916	2 329	1 665	1 502	109	664	620	329	238	2.54	3.09	355	73	282
Toole County.....	4 726	1 922	1 315	1 136	129	607	566	236	173	2.46	3.06	320	56	264
Treasure County.....	256	339	256	232	83	80	80	37	22	2.58	3.07	—	—	—
Valley County.....	8 128	3 268	2 281	1 948	243	987	913	421	316	2.49	3.05	111	111	—
Wheatland County.....	1 980	849	550	476	41	299	279	144	104	2.33	2.96	266	33	233
Willoux County.....	1 152	434	316	269	29	138	129	66	48	2.54	3.11	39	39	—
Yellowstone County.....	111 433	44 689	30 500	24 971	4 332	14 189	11 853	4 269	3 347	2.49	3.04	1 986	1 179	807
Yellowstone National Park.....	52	24	16	15	—	8	7	—	—	2.17	2.63	—	—	—
PLACE AND COUNTY SUBDIVISION														
Anaconda-Deer Lodge County.....	9 418	4 060	2 654	2 175	377	1 406	1 318	683	500	2.32	2.95	860	629	231
Billings city.....	79 368	33 181	21 491	17 162	3 493	11 690	9 742	3 458	2 774	2.39	2.98	1 783	1 003	780
Bozeman city.....	19 885	8 751	4 579	3 612	725	4 172	2 641	682	586	2.27	2.87	2 777	276	2 501
Butte-Silver Bow (remainder).....	32 640	13 651	8 859	7 153	1 289	4 792	4 358	2 104	1 588	2.39	3.05	696	413	283
Great Falls city.....	54 193	22 639	14 966	12 029	2 358	7 673	6 686	2 590	2 003	2.39	2.98	904	787	117
Harve city.....	9 762	4 027	2 645	2 115	426	1 382	1 199	452	365	2.42	3.04	439	221	218
Helena city.....	23 481	10 428	6 270	4 827	1 171	4 158	3 659	1 241	1 007	2.25	2.93	1 088	446	642
Kalispell city.....	11 568	5 237	3 113	2 382	608	2 124	1 911	876	729	2.21	2.90	349	307	42
Missoula city.....	40 243	17 677	9 964	7 730	1 798	7 713	5 886	1 759	1 412	2.28	2.96	2 475	837	1 638
Missoula CDP.....	10 317	4 169	2 226	1 854	197	1 399	1 261	593	431	2.31	2.93	413	283	130
Butte-Silver Bow.....	33 245	13 899	9 025	7 284	1 316	4 874	4 431	2 145	1 619	2.39	3.05	696	413	283

Table 5. Land Area and Population Density: 1990

[For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	Land area			Persons per—		State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	Land area			Persons per—	
	All persons	Square kilo- meters	Square miles	Square kilometer	Square mile		All persons	Square kilo- meters	Square miles	Square kilometer	Square mile
The State	799 065	376 990.9	145 556.3	2.1	5.5	One Representative at Large—Con. COUNTY—Con.					
One Representative at Large	799 065	376 990.9	145 556.3	2.1	5.5	Park County	14 562	6 079.5	2 356.2	2.1	5.5
COUNTY						Petroleum County	519	4 283.7	1 653.9	.1	3
Beaverhead County	8 424	14 355.4	5 542.6	.6	1.5	Phillips County	5 163	13 312.3	5 139.9	.4	1.0
Big Horn County	11 337	12 936.7	4 994.9	.9	2.3	Pondera County	6 433	4 207.9	1 624.7	1.5	4.0
Blaine County	6 728	10 946.0	4 226.2	.6	1.6	Powder River County	2 090	8 539.9	3 297.3	.2	.6
Broodwater County	3 318	3 085.1	1 191.5	1.1	2.8	Powell County	6 620	6 024.3	2 326.0	1.1	2.8
Carbon County	8 080	5 304.5	2 048.1	1.5	3.9	Prairie County	1 383	4 497.8	1 736.6	.3	.8
Carters County	1 933	8 649.8	3 339.7	.2	.5	Rawlins County	25 010	6 201.2	2 394.3	4.0	10.4
Cascade County	77 491	6 987.9	2 698.0	11.1	28.8	Richland County	10 716	5 398.0	2 084.2	2.0	5.1
Chouteau County	5 432	10 291.2	3 973.4	.5	1.4	Roosevelt County	10 999	6 101.1	2 355.7	1.8	4.7
Custer County	11 697	9 788.7	3 783.3	1.2	3.1	Rosebud County	10 505	12 982.1	5 012.4	.8	2.1
Daniels County	2 266	3 493.7	1 426.1	.6	1.6	Sanders County	8 669	7 154.3	2 762.3	1.2	3.1
Dawson County	9 505	6 146.8	2 373.3	1.5	4.0	Sheridan County	4 732	4 342.5	1 676.7	1.1	2.8
Deer Lodge County	10 278	1 908.7	736.9	5.4	13.9	Silver Bow County	33 941	1 860.5	718.3	18.2	47.3
Fallon County	3 103	4 196.8	1 620.4	.7	1.9	Stillwater County	6 536	4 648.4	1 794.7	1.4	3.6
Fergus County	12 083	11 238.8	4 339.3	1.1	2.8	Sweet Grass County	3 154	4 804.9	1 855.2	.7	1.7
Flint County	59 218	13 205.4	5 098.6	4.5	11.6	Teton County	6 271	5 886.0	2 272.6	1.1	2.8
Gallatin County	50 463	6 492.8	2 506.9	7.8	20.1	Toole County	5 046	4 949.3	1 910.9	1.0	2.6
Gartfield County	1 589	12 090.6	4 668.2	.1	.3	Treasure County	874	2 535.4	978.9	.3	.9
Glacier County	12 121	7 756.4	2 994.7	1.6	4.0	Valley County	8 239	12 745.2	4 920.9	.6	1.7
Golden Valley County	912	3 044.1	1 175.3	.3	.8	Wheatland County	2 246	3 686.0	1 423.2	.6	1.6
Granite County	2 548	4 474.3	1 727.5	.6	1.5	Wibaux County	1 191	2 303.4	889.3	.5	1.3
Hill County	17 654	7 501.6	2 896.4	2.4	6.1	Yellowstone County	113 419	6 825.2	2 635.2	16.6	43.0
Jefferson County	7 939	4 290.9	1 656.7	1.9	4.8	Yellowstone National Park	52	635.6	245.4	.1	.2
Judith Basin County	2 282	4 843.0	1 869.9	.5	1.2	PLACE AND COUNTY SUBDIVISION					
Lake County	21 041	3 869.0	1 493.8	5.4	14.1	Anaconda-Deer Lodge County	10 278	1 908.7	736.9	5.4	13.9
Lewis and Clark County	47 495	8 964.1	3 461.0	5.3	13.7	Billings city	81 151	84.4	32.6	961.5	2 489.3
Liberty County	2 295	3 703.2	1 429.8	.6	1.6	Bozeman city	22 660	25.3	9.8	895.7	2 312.2
Lincoln County	17 481	9 357.1	3 612.8	1.9	4.8	Burte-Silver Bow (remainder)	33 336	1 854.9	716.2	18.0	46.5
McCone County	2 276	6 844.3	2 642.6	.3	.9	Great Falls city	55 097	40.0	15.4	377.4	3 577.7
Madison County	5 989	9 289.4	3 586.6	.6	1.7	Great Falls city	10 201	6.4	2.5	593.9	4 080.4
Meagher County	1 819	6 194.9	2 391.9	.3	.8	Helena city	24 569	35.0	13.5	702.0	1 819.9
Mineral County	3 315	3 159.5	1 219.9	1.0	2.7	Kalispell city	11 917	11.4	4.4	1 045.4	2 708.4
Missoula County	78 687	6 729.4	2 598.2	11.7	30.3	Missoula city	42 918	43.1	16.6	995.8	2 585.4
Nusseltshill County	4 106	4 836.0	1 867.2	.8	2.2	Orchard Homes CDP	10 317	21.0	8.1	491.3	1 273.7
						Burte-Silver Bow	33 941	1 860.5	718.3	18.2	47.3

Table 6. Selected Population Characteristics for American Indian and Alaska Native Areas: 1990

[For definitions of terms and meanings of symbols, see text]

Congressional District American Indian Area	All persons	American Indian, Eskimo, or Aleut												
		Total	Female	Age										
				Under 5 years	16 years and over	18 years and over	18 to 20 years	21 to 24 years	25 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	Median age
One Representative at Large.....	799 065	47 679	24 087	6 150	29 614	27 799	2 520	2 928	14 098	3 655	1 344	1 034	2 220	23.0
AMERICAN INDIAN RESERVATION AND TRUST LAND														
All areas.....	55 165	30 424	15 225	4 099	18 440	17 231	1 557	1 815	8 554	2 342	859	658	1 446	22.0
Blackfeet Reservation, MT.....	8 549	7 025	3 556	918	4 228	3 960	289	400	1 931	586	196	167	391	22.7
Crow Reservation and Trust Lands, MT.....	6 370	4 724	2 392	585	2 837	2 645	225	272	1 355	386	143	99	165	21.8
Flathead Reservation, MT.....	21 259	5 130	2 476	591	3 347	3 139	357	304	1 486	407	161	124	300	23.7
Fort Belknap Reservation and Trust Lands, MT.....	2 508	2 338	1 164	337	1 390	1 292	101	122	616	176	71	59	147	22.0
Fort Peck Reservation, MT.....	10 595	5 782	2 953	890	3 482	3 272	296	364	1 697	414	155	111	235	21.9
Northern Cheyenne Reservation and Trust Lands, MT-SD (pt.).....	3 923	3 542	1 768	519	2 044	1 891	188	234	947	233	90	65	134	19.8
Rocky Boy's Reservation and Trust Lands, MT.....	1 954	1 882	916	259	1 111	1 031	101	119	522	139	43	33	74	20.7
Crow/Northern Cheyenne Area, MT.....	7	1	—	—	1	1	—	—	—	1	—	—	—	52.5

Table 7. General Characteristics of Housing Units: 1990

[For definitions of terms and meanings of symbols, see text]

State Congressional District	The State	One Representative at Large
HOUSING UNITS		
All housing units	361 155	361 155
TENURE BY RACE AND HISPANIC ORIGIN OF HOUSEHOLDER		
Occupied housing units	306 163	306 163
Owner-occupied housing units	205 899	205 899
White	198 363	198 363
Black	232	232
American Indian, Eskimo, or Aleut	6 343	6 343
Asian or Pacific Islander	499	499
Other race	462	462
Hispanic origin (of any race)	1 575	1 575
Renter-occupied housing units	100 264	100 264
White	91 667	91 667
Black	528	528
American Indian, Eskimo, or Aleut	6 887	6 887
Asian or Pacific Islander	541	541
Other race	641	641
Hispanic origin (of any race)	1 799	1 799
ROOMS		
All housing units	361 155	361 155
1 or 2 rooms	23 475	23 475
3 or 4 rooms	111 861	111 861
5 or 6 rooms	131 375	131 375
7 or 8 rooms	62 685	62 685
9 or more rooms	31 759	31 759
PERSONS PER ROOM		
Owner-occupied housing units	205 899	205 899
1.00 or less	201 485	201 485
1.01 to 1.50	3 308	3 308
1.51 or more	1 106	1 106
Mean .....	.43	.43
Renter-occupied housing units	100 264	100 264
1.00 or less	95 792	95 792
1.01 to 1.50	3 116	3 116
1.51 or more	1 356	1 356
Mean .....	.53	.53
VACANCY STATUS		
Vacant housing units	54 992	54 992
For sale only	6 228	6 228
For rent	10 601	10 601
Rented or sold, not occupied	3 175	3 175
For seasonal, recreational, or occasional use	20 481	20 481
For migrant workers	588	588
Other vacant	13 919	13 919
UNITS IN STRUCTURE		
All housing units	361 155	361 155
1, detached	237 533	237 533
1, attached	8 432	8 432
2	13 640	13 640
3 or 4	15 687	15 687
5 to 9	10 376	10 376
10 to 19	8 386	8 386
20 to 49	5 788	5 788
50 or more	2 757	2 757
Mobile home or trailer	54 021	54 021
Other	4 535	4 535
VALUE		
Specified owner-occupied housing units	132 419	132 419
Less than \$20,000	8 827	8 827
\$20,000 to \$39,999	24 301	24 301
\$40,000 to \$59,999	40 177	40 177
\$60,000 to \$74,999	27 439	27 439
\$75,000 to \$99,999	19 841	19 841
\$100,000 to \$149,999	8 398	8 398
\$150,000 to \$199,999	2 142	2 142
\$200,000 to \$249,999	700	700
\$250,000 to \$299,999	318	318
\$300,000 or more	276	276
Median (dollars)	56 600	56 600
CONTRACT RENT		
Specified renter-occupied housing units	92 811	92 811
Less than \$150	14 671	14 671
\$150 to \$199	13 403	13 403
\$200 to \$249	14 372	14 372
\$250 to \$299	14 717	14 717
\$300 to \$399	19 407	19 407
\$400 to \$599	7 901	7 901
\$600 to \$749	642	642
\$750 to \$999	199	199
\$1,000 or more	230	230
No cash rent	7 269	7 269
Median (dollars)	251	251

Table 8. Structural and Vacancy Characteristics: 1990

[For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	All housing units							Occupied housing units			Vacant housing units			
	Units in structure							Mean number per rooms	Total	With 1.01 or more persons per room	For seasonal recreational, or occasional use			Rental vacancy rate
	Total	1 unit, detached	1 unit, attached	2 to 4 units	5 to 9 units	10 or more units	Mobile home, trailer, other				Total	Seasonal vacancy rate	Home- owner vacancy rate	
The State	361 155	237 533	8 432	29 327	10 376	16 931	58 556	5.4	306 163	8 886	54 992	20 481	2.9	9.6
One Representative at Large	361 155	237 533	8 432	29 327	10 376	16 931	58 556	5.4	306 163	8 886	54 992	20 481	2.9	9.6
COUNTY														
Beaverhead County	4 128	2 665	38	235	77	143	970	5.2	3 211	73	917	414	2.7	9.8
Big Horn County	4 304	3 062	47	190	86	72	847	5.0	3 448	475	856	198	3.7	10.4
Blaine County	2 930	2 221	21	153	51	86	398	5.3	2 379	124	551	110	2.5	8.9
Broadwater County	1 593	1 079	12	57	23	13	409	5.3	1 280	30	313	137	4.2	12.1
Carbon County	4 828	3 733	50	198	80	19	748	5.3	3 269	65	1 559	893	4.1	13.7
Carters County	816	579	4	8	—	10	215	5.2	589	14	227	51	3.6	20.8
Cascade County	30 063	20 180	1 693	3 273	1 168	2 963	3 786	5.4	30 133	723	2 930	765	1.9	7.8
Chouteau County	2 668	2 038	16	77	39	46	452	5.7	2 064	39	604	162	2.3	12.4
Custer County	5 405	3 670	75	487	169	281	723	5.4	4 631	98	774	86	4.0	14.3
Daniels County	1 220	1 008	7	40	15	18	132	5.6	919	8	301	29	7.0	24.1
Dawson County	4 487	3 265	30	343	113	136	600	5.9	3 691	59	796	41	3.2	21.7
Deer Lodge County	4 830	3 759	93	308	83	73	414	5.0	4 060	75	770	294	3.2	13.9
Fallon County	1 525	1 079	9	74	31	29	303	5.8	1 166	19	359	34	8.6	28.3
Fergus County	5 732	4 090	43	257	147	147	1 048	5.4	4 603	102	1 129	181	2.8	13.8
Flathead County	26 979	18 087	578	1 816	491	1 243	4 764	5.3	22 834	699	4 145	2 517	1.8	8.6
Gallatin County	21 350	11 615	890	2 988	950	2 357	3 350	5.4	19 015	493	2 335	1 286	1.5	4.5
Gardiner County	924	660	3	19	7	235	51	577	19	347	261	2.2	8.7	
Glacier County	4 727	3 172	158	347	91	149	880	5.0	3 816	398	981	447	1.9	8.4
Golden Valley County	432	344	2	1	—	—	88	5.7	330	8	102	14	3.3	14.8
Granite County	1 924	1 401	13	44	16	15	432	4.6	1 051	34	873	569	3.9	13.4
Hill County	7 345	4 749	70	702	292	396	1 136	5.5	6 426	254	919	223	2.3	8.7
Jefferson County	3 302	2 340	16	66	18	67	795	5.7	2 867	67	435	181	1.7	11.2
Judith Basin County	1 346	1 040	5	14	7	21	259	5.3	1 008	17	438	193	9	7.5
Lake County	10 972	8 011	150	419	184	201	2 007	5.2	7 814	342	3 158	2 302	2.2	9.8
Lewis and Clark County	21 412	13 270	346	2 465	606	1 075	3 606	5.5	18 649	362	2 763	1 640	1.5	7.3
Liberty County	707	712	8	25	7	50	205	5.8	788	21	219	77	2.6	9.3
Lincoln County	8 002	5 349	44	206	116	198	2 089	5.1	6 668	292	1 334	581	1.7	10.0
McCone County	1 161	865	36	36	21	231	57	124	844	13	317	124	3.4	22.0
Madison County	3 902	2 624	35	119	58	296	770	4.9	2 807	72	1 515	862	3.9	17.7
Meagher County	1 259	872	3	41	16	—	327	4.6	709	19	550	360	3.0	18.1
Mineral County	1 635	1 008	8	54	26	2	537	4.7	1 282	69	353	166	1.6	14.9
Missoula County	33 466	19 714	571	4 573	1 201	2 196	5 311	5.3	30 782	852	2 684	1 093	1.5	4.2
Musselshell County	2 183	1 548	12	46	26	66	485	5.2	1 661	47	522	77	5.7	20.0
Park County	6 926	4 899	67	391	131	248	1 190	5.1	5 619	175	1 307	740	2.5	9.8
Petroleum County	293	212	1	80	2	80	209	8	209	8	84	40	2.5	16.7
Phillips County	2 765	1 900	21	118	56	54	616	5.1	1 931	54	834	253	3.9	13.2
Pondera County	2 618	1 955	56	84	70	66	387	5.6	2 246	80	372	64	2.8	9.2
Powder River County	1 096	694	7	32	10	353	54	805	15	291	87	2.2	20.4	
Powell County	2 835	2 024	23	144	44	52	548	5.3	2 234	46	601	186	2.6	11.3
Prairie County	749	579	4	20	25	—	121	5.6	568	9	181	14	2.4	24.5
Ravalli County	11 099	8 185	112	401	110	195	2 096	5.3	9 698	332	1 401	584	2.3	7.0
Richland County	4 825	3 229	40	448	196	102	810	5.7	3 956	91	869	45	4.5	19.1
Rosevelt County	4 265	3 110	93	244	65	91	662	5.2	3 694	238	571	71	3.2	11.3
Rosebud County	4 251	2 338	99	332	79	60	1 343	5.2	3 479	293	772	122	2.7	13.3
Sanders County	4 335	3 029	38	108	64	31	1 065	4.9	3 397	144	938	345	3.2	13.1
Shenandoah County	2 417	1 782	12	129	70	65	359	5.6	1 899	25	518	70	4.2	25.9
Silver Bow County	15 474	10 850	166	1 355	538	1 135	1 430	5.3	13 899	252	1 575	118	2.1	14.0
Stillwater County	3 291	2 411	13	85	37	41	704	5.3	2 523	64	768	428	2.6	9.5
Sweet Grass County	1 639	1 290	8	73	43	225	54	1 281	30	358	170	2.7	12.9	
Teton County	2 725	2 082	16	58	76	72	421	5.5	2 329	46	396	126	1.9	8.4
Toole County	2 354	1 713	19	78	90	84	370	5.4	1 922	41	432	46	2.9	11.9
Treasure County	448	324	2	12	—	—	105	5.4	339	10	109	21	8.0	12.4
Valley County	5 504	3 171	1 201	203	87	132	510	5.6	3 268	77	2 036	263	34.2	11.4
Wheatland County	1 129	847	6	44	9	12	211	5.4	849	23	280	94	2.1	17.3
Wibaux County	563	390	—	31	—	19	123	5.6	454	8	109	18	2.7	27.7
Yellowstone County	48 781	30 688	1 370	5 259	2 418	2 791	6 255	5.7	44 689	845	4 092	204	2.9	10.2
Yellowstone National Park	46	22	—	3	—	1	20	4.0	24	—	22	4	—	22.2
PLACE AND COUNTY SUBDIVISION														
Anaconda-Deer Lodge County	4 830	3 759	93	308	83	173	414	5.0	4 060	75	770	294	3.2	13.9
Billings city	35 944	21 609	1 279	4 963	2 241	2 670	3 002	5.7	33 181	556	2 783	113	3.0	9.3
Bozeman city	9 117	3 571	376	2 341	755	1 379	695	5.0	8 751	249	366	45	1.1	2.8
Butte-Silver Bow (remainder)	15 180	10 566	165	1 351	538	1 135	1 425	5.3	13 651	264	1 529	116	2.1	14.0
Great Falls city	24 157	14 928	579	2 968	1 050	1 699	549	5.4	22 439	463	1 518	85	1.6	8.0
Havey city	5 346	2 576	57	640	289	389	395	5.5	4 027	86	319	18	2.6	9.6
Helena city	11 053	6 124	234	2 266	635	1 067	667	5.4	10 428	131	625	44	1.4	7.5
Kalispell city	5 537	3 506	130	687	193	168	681	5.1	5 237	102	300	19	2.3	5.0
Missoula city	18 488	10 210	368	3 596	1 053	2 172	1 089	5.1	17 437	531	1 631	81	1.7	3.6
Orchard Homes CDP	4 339	2 432	109	750	9	—	1 039	5.3	4 169	109	170	16	1.1	4.1
Butte-Silver Bow	15 474	10 850	166	1 355	538	1 135	1 430	5.3	13 899	252	1 575	118	2.1	14.0

Table 9. Occupancy and Financial Characteristics for Owner-Occupied Housing Units: 1990

[For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	All owner-occupied housing units				Specified owner-occupied housing units									
	Total	1 unit, detached or attached	Persons per unit	Mean number of rooms	Total	Value								
						Less than \$50,000	\$50,000 to \$99,999	\$100,000 to \$149,999	\$150,000 to \$199,999	\$200,000 to \$299,999	\$300,000 or more	Lower quartile (dollars)	Median (dollars)	Upper quartile (dollars)
The State	205 899	166 491	2.65	6.2	132 419	52 306	68 279	8 398	2 142	1 018	276	40 000	56 600	74 200
One Representative at Large	205 899	166 491	2.65	6.2	132 419	52 306	68 279	8 398	2 142	1 018	276	40 000	56 600	74 200
COUNTY														
Beaverhead County	1 975	1 558	2.64	6.2	1 171	469	622	59	12	7	2	40 700	55 500	71 500
Big Horn County	2 160	1 753	3.24	5.5	1 234	792	416	18	3	1	1	27 200	41 600	57 500
Blaine County	1 479	1 250	2.78	6.0	823	545	264	12	3	1	1	25 500	40 800	56 400
Broadwater County	721	699	2.59	6.0	423	292	208	19	2	2	—	30 000	46 800	63 700
Carbon County	2 390	1 956	2.47	5.8	1 301	739	470	67	11	12	2	30 700	45 700	66 300
Carters County	456	342	2.59	5.7	127	108	18	—	—	—	—	15 000	22 500	39 300
Cascade County	19 187	15 963	2.74	6.3	14 150	4 399	8 515	998	226	114	18	46 300	60 100	75 600
Chouteau County	1 431	1 179	2.57	6.3	737	451	256	19	7	1	3	25 700	41 900	61 200
Cluster County	3 100	2 587	2.55	6.3	2 166	1 532	564	52	16	1	1	23 500	37 400	54 200
Daniels County	730	650	2.45	6.2	444	335	99	10	—	—	—	16 400	30 800	49 500
Dawson County	2 485	2 278	2.66	6.5	1 835	1 308	502	19	4	2	—	23 600	37 100	53 400
Deer Lodge County	2 961	2 692	2.42	5.6	2 413	1 847	523	39	1	1	2	21 600	34 000	48 900
Fallon County	898	721	2.69	6.3	494	348	143	3	—	—	—	21 500	36 700	54 000
Fergus County	3 290	2 673	2.54	6.0	1 881	1 222	590	61	6	1	1	27 900	40 800	58 100
Flathead County	16 131	12 752	2.67	6.0	9 874	2 749	5 598	972	293	187	75	48 100	64 200	87 200
Gallatin County	11 125	8 514	2.68	6.4	6 689	1 179	4 343	758	246	140	23	55 300	70 200	92 100
Garfield County	409	294	2.82	5.8	128	91	36	—	—	—	—	15 700	32 000	52 900
Glaisher County	2 025	1 814	3.03	5.7	1 427	888	498	34	4	1	2	30 900	43 800	59 400
Golden Valley County	261	212	2.46	6.0	112	92	18	1	1	—	—	20 400	30 800	43 200
Granite County	792	604	2.39	5.6	419	285	116	11	2	3	2	23 300	37 700	58 100
Hill County	4 056	3 306	2.77	6.4	2 720	1 215	1 354	123	21	6	1	37 300	53 200	70 900
Jefferson County	2 313	1 785	2.75	6.2	1 253	415	705	113	15	4	1	43 000	63 700	84 400
Judith Basin County	662	535	2.49	6.1	275	206	68	1	—	—	—	18 500	30 600	50 100
Lake County	5 485	4 437	2.67	5.8	2 914	1 059	1 916	304	124	84	30	42 100	61 300	88 700
Lewis and Clark County	17 724	10 125	2.67	6.3	8 618	2 056	5 715	556	105	34	18	49 700	61 800	75 200
Liberty County	565	459	2.68	6.5	291	176	104	9	—	—	1	25 300	41 300	65 000
Lincoln County	4 888	3 531	2.67	5.6	2 444	1 377	1 143	107	12	1	4	36 200	48 900	66 200
McCone County	660	524	2.70	6.2	380	252	125	60	3	—	—	19 400	32 300	49 200
Madison County	1 643	1 289	2.44	5.8	787	316	394	54	15	5	3	40 000	56 800	77 300
Meagher County	478	368	2.31	5.8	268	184	73	8	2	1	—	22 500	36 500	55 200
Mineral County	934	606	2.59	5.3	434	267	153	14	—	—	—	29 900	43 700	61 000
Missoula County	18 514	14 691	2.71	6.3	12 701	2 590	8 533	1 140	296	118	24	52 500	66 200	85 800
Musselshell County	1 297	993	2.45	5.6	634	510	115	8	—	—	—	17 700	29 600	44 000
Park County	3 724	2 967	2.56	5.9	2 244	1 194	881	122	24	15	15	34 900	48 100	67 300
Petroleum County	159	110	2.48	5.6	59	52	6	—	—	—	—	15 000	15 500	35 400
Phillips County	1 347	1 064	2.70	6.0	703	432	257	9	2	3	—	23 500	41 500	59 800
Pondera County	562	1 326	2.57	6.1	936	573	330	25	6	1	1	27 600	42 100	62 200
Powder River County	591	394	2.57	6.0	155	85	68	2	—	—	—	28 100	43 800	64 400
Powell County	1 603	1 268	2.54	5.9	973	641	308	20	2	—	—	29 100	41 900	56 100
Prairie County	448	364	2.41	6.0	236	206	30	—	—	—	—	15 000	19 100	32 100
Ravalli County	7 281	5 877	2.57	5.7	3 763	1 205	2 194	270	74	18	2	45 200	61 500	78 600
Richland County	2 797	2 279	2.77	6.4	1 730	1 016	666	34	10	4	—	27 800	44 200	61 700
Rosebud County	2 361	1 893	2.86	6.0	1 423	941	458	20	4	—	—	25 800	40 400	57 100
Rosebud County	2 395	1 529	3.08	5.8	1 177	561	590	21	3	—	—	23 300	51 800	68 900
Sanders County	2 551	1 848	2.35	5.4	1 106	689	383	23	6	4	1	28 200	42 000	58 900
Sheridan County	1 463	1 230	2.47	6.2	814	525	259	19	7	2	—	22 800	39 500	60 100
Silver Bow County	9 844	8 737	2.55	5.9	7 946	4 571	2 861	395	83	27	9	28 900	44 300	66 400
Stillwater County	1 857	1 422	2.57	5.9	926	363	504	53	4	1	1	41 900	56 200	72 100
Sweet Grass County	801	621	2.43	6.1	512	380	200	25	7	—	—	34 600	48 000	67 200
Teton County	1 710	1 469	2.64	6.1	895	530	340	19	5	—	1	31 400	44 900	59 100
Toole County	1 381	1 160	2.58	6.2	872	594	253	19	5	—	1	25 300	39 100	57 100
Treasure County	1 671	1 157	2.64	5.9	1 011	83	18	—	—	—	—	22 600	35 200	44 900
Valley County	2 232	2 030	2.59	6.2	1 492	1 072	386	26	6	—	—	22 700	36 800	52 900
Wheatland County	639	520	2.33	5.8	391	338	50	2	1	—	—	17 000	27 600	39 700
Whitman County	329	247	2.50	6.0	133	122	29	—	—	—	—	15 000	28 900	43 900
Yellowstone National Park	29 371	24 627	2.66	6.1	22 067	5 915	13 617	1 759	465	211	41	48 800	62 800	81 100
	3	—	2.67	3.3	—	—	—	—	—	—	—	—	—	—
PLACE AND COUNTY SUBDIVISION														
Anaconda-Deer Lodge County	2 961	2 692	2.42	5.6	2 413	1 847	523	39	1	1	2	21 600	34 000	48 900
Billings city	20 297	17 630	2.58	6.7	16 663	4 075	10 775	1 327	316	136	34	50 300	63 600	81 200
Bozeman city	3 519	2 749	2.54	6.5	2 544	358	1 877	219	57	30	3	37 000	68 800	86 400
Butterfield city	9 442	8 537	2.55	5.9	7 753	4 396	2 844	394	83	27	9	29 700	44 800	66 900
Great Falls city	14 207	12 394	2.60	6.4	11 691	3 356	7 355	726	168	76	10	47 600	60 600	74 900
Haure city	2 362	2 040	2.66	6.6	1 912	735	1 080	80	13	3	1	42 200	56 000	71 800
Helena city	5 984	5 223	2.53	6.7	4 873	1 164	3 265	345	73	23	5	50 600	63 200	79 100
Kalispell city	2 826	2 632	2.43	6.2	2 455	901	405	120	18	9	2	44 200	56 400	71 600
Missoula city	8 750	7 789	2.60	6.5	7 321	1 557	5 032	522	136	61	13	51 800	64 500	81 500
Orchard Homes CDP	2 505	1 836	2.58	6.0	1 693	289	1 202	169	29	4	—	54 900	68 600	87 200
Burte-Silver Bow	9 844	8 737	2.55	5.9	7 946	4 571	2 861	395	83	27	9	28 900	44 300	66 400

Table 10. **Occupancy and Financial Characteristics for Renter-Occupied Housing Units: 1990**

[For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	All renter-occupied housing units				Specified renter-occupied housing units paying cash rent										With meals included in rent
	Total	1 unit, de- tached or attached	Persons per unit	Mean number of rooms	Total	Contract rent									
						Less than \$250	\$250 to \$499	\$500 to \$749	\$750 to \$999	\$1,000 or more	Lower quintile (dollars)	Median (dollars)	Upper quintile (dollars)		
The State	100 264	43 927	2.28	4.4	85 542	42 446	40 278	2 389	199	230	175	251	332	1 611	
One Representative at Large	100 264	43 927	2.28	4.4	85 542	42 446	40 278	2 389	199	230	175	251	332	1 611	
COUNTY															
Beaverhead County	1 236	577	2.31	4.5	874	623	249	1	—	1	147	195	263	8	
Big Horn County	1 288	845	3.27	4.7	904	664	232	8	—	—	100—	178	256	13	
Blaine County	900	597	2.72	4.7	609	518	90	1	—	—	100—	159	217	10	
Broadwater County	321	193	2.47	4.6	222	144	76	2	—	—	159	216	280	1	
Carbon County	879	598	2.38	4.8	589	396	187	6	—	—	155	211	277	4	
Carters County	133	92	2.27	5.0	55	49	5	—	1	—	109	144	190	—	
Cascade County	10 946	4 168	2.29	4.3	9 761	4 084	5 289	362	16	10	187	275	352	215	
Chouteau County	633	448	2.56	5.3	317	241	74	2	—	—	140	189	247	1	
Custer County	1 531	731	2.21	4.4	1 282	763	508	8	2	1	168	225	292	81	
Daniels County	189	138	2.31	5.0	115	98	15	2	—	—	124	173	224	1	
Dawson County	1 006	520	2.19	4.8	846	581	263	1	—	1	144	205	267	44	
Deer Lodge County	1 099	617	2.04	4.1	961	823	138	—	—	—	110	148	198	18	
Fallon County	268	161	2.46	5.3	196	150	46	—	—	—	109	174	246	13	
Fergus County	1 313	805	2.35	4.6	970	674	292	2	—	2	154	199	270	6	
Flathead County	6 703	3 068	2.29	4.3	5 873	2 388	3 210	174	24	77	203	272	344	97	
Gallatin County	7 890	2 438	2.26	4.2	7 145	2 269	4 434	418	17	7	226	292	373	16	
Garfield County	168	111	2.52	4.8	58	51	7	—	—	—	135	173	208	1	
Glacier County	1 491	935	3.03	4.4	1 236	954	279	2	—	1	100—	147	241	10	
Golden Valley County	69	57	2.39	5.2	28	25	2	1	—	—	133	168	200	—	
Granite County	259	154	2.45	4.5	169	143	26	—	—	—	134	177	224	1	
Hill County	2 370	953	2.41	4.5	2 075	1 199	829	45	—	2	161	228	298	83	
Jefferson County	554	295	2.38	4.5	419	280	124	15	—	—	156	215	276	1	
Judith Basin County	246	177	2.28	5.0	110	99	11	—	—	—	123	153	190	—	
Lake County	2 329	1 337	2.50	4.5	1 815	1 085	609	19	1	1	127	207	279	4	
Lewis and Clark County	5 880	1 715	2.05	4.2	5 446	2 091	3 169	178	5	3	208	279	351	143	
Liberty County	223	123	2.33	5.1	128	84	44	—	—	—	153	202	279	—	
Lincoln County	1 780	1 011	2.42	4.3	1 473	1 033	435	5	—	—	155	205	265	6	
McCone County	184	139	2.47	5.7	78	78	14	1	—	—	140	181	229	1	
Madison County	744	491	2.41	4.9	412	249	158	5	—	—	162	224	289	1	
Meagher County	231	138	2.56	4.9	123	104	18	1	—	—	137	192	235	2	
Mineral County	348	209	2.42	4.4	260	203	55	1	—	—	143	187	242	—	
Missoula County	12 268	3 905	2.10	3.9	11 628	4 779	6 433	390	19	7	212	273	353	243	
Musselshell County	364	216	2.26	4.6	255	215	40	—	—	—	131	175	225	1	
Park County	1 895	1 046	2.25	4.4	1 484	884	573	25	—	2	162	224	297	1	
Petroleum County	50	37	2.48	5.6	13	13	—	—	—	—	152	175	198	—	
Phillips County	584	326	2.34	4.8	415	286	129	—	—	—	128	195	275	1	
Pondera County	684	428	2.49	4.8	458	334	122	2	—	—	150	194	260	1	
Powder River County	214	144	2.49	5.4	89	61	28	—	—	—	160	217	266	—	
Powell County	431	367	2.19	4.5	472	375	95	2	—	—	141	188	240	—	
Prairie County	120	86	2.40	5.3	62	62	—	—	—	—	112	158	191	1	
Ravalli County	2 417	1 365	2.42	4.5	1 861	1 077	751	29	3	1	173	232	299	4	
Richland County	1 159	555	2.44	4.9	917	625	288	4	—	—	149	210	271	2	
Roosevelt County	1 333	916	3.07	4.9	1 080	844	234	5	—	—	100—	173	245	17	
Rosebud County	1 084	553	2.75	4.5	795	504	274	17	—	—	125	206	295	13	
Sanders County	846	548	2.48	4.5	575	481	93	1	—	—	126	173	226	1	
Sheridan County	436	240	2.33	4.8	310	223	69	17	—	1	136	193	263	16	
Silver Bow County	4 055	1 532	2.02	4.1	3 778	2 659	1 085	31	3	—	135	189	270	7	
Stillwater County	666	435	2.52	4.8	453	254	193	5	—	1	169	235	301	1	
Sweet Grass County	357	232	2.40	4.9	212	159	52	—	—	1	151	195	250	1	
Teton County	619	381	2.26	4.5	392	275	103	14	—	—	144	202	273	57	
Toole County	541	276	2.15	4.4	414	301	109	3	—	1	136	189	259	1	
Treasure County	120	89	2.46	5.5	39	32	7	—	—	—	138	179	230	—	
Valley County	936	572	2.23	4.7	730	488	219	22	—	—	149	206	278	89	
Wheatland County	210	152	2.32	5.2	117	108	9	1	—	—	113	140	181	1	
Wibaux County	125	78	2.62	5.4	71	61	9	1	—	—	131	175	224	—	
Yellowstone County	15 318	5 594	2.17	4.4	14 339	5 098	8 464	561	107	109	213	289	366	391	
Yellowstone National Park	21	13	2.10	4.6	19	18	1	—	—	—	117	207	231	—	
PLACE AND COUNTY SUBDIVISION															
Anacond-Deer Lodge County	1 099	617	2.04	4.1	961	823	138	—	—	—	110	148	198	—	
Billings city	12 884	4 256	2.09	4.3	12 454	4 189	7 565	493	98	109	219	294	369	379	
Bozeman city	5 232	1 096	2.15	3.9	5 116	1 558	3 285	257	11	5	230	295	376	13	
Butte-Silver Bow (remainder)	4 009	1 488	2.01	4.1	3 738	2 623	1 081	31	3	—	135	189	270	71	
Great Falls city	8 432	2 443	2.04	4.0	8 151	3 607	4 245	278	11	10	182	266	343	215	
Haute city	1 665	471	2.09	4.2	608	850	718	38	—	2	174	242	308	80	
Helena city	4 444	983	1.88	4.0	4 324	1 661	2 530	126	4	3	206	279	351	142	
Kalispell city	2 411	861	1.95	3.9	2 317	1 003	1 195	30	13	76	186	266	337	89	
Missoula city	8 927	2 423	1.96	3.7	8 689	3 652	4 749	270	15	3	211	272	352	233	
Orchard Homes CDP	1 664	637	2.31	4.3	1 594	563	981	46	—	4	223	286	364	4	
Butte-Silver Bow	4 055	1 532	2.02	4.1	3 778	2 659	1 085	31	3	—	135	189	270	7	

Table 11. Occupied Housing Units by Race and Hispanic Origin of Householder: 1990

[For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	Race of householder						Householder of Hispanic origin (of any race)	Householder not of Hispanic origin				
	All occupied housing units	Race of householder						White	Black	American Indian, Alaskan, or Native	Asian or Pacific Islander	Other race
		White	Black	American Indian, Alaskan, or Native	Asian or Pacific Islander	Other race						
The State	306 163	290 030	760	13 230	1 040	1 103	3 374	288 053	726	12 969	1 004	37
One Representative of Large	306 163	290 030	760	13 230	1 040	1 103	3 374	288 053	726	12 969	1 004	37
COUNTY												
Beaverhead County	3 211	3 147	1	32	7	24	38	3 133	1	32	7	-
Big Horn County	3 448	1 923	5	1 485	11	24	78	1 885	4	1 470	11	-
Blaine County	2 379	1 619	3	754	1	2	15	1 609	3	751	1	-
Broadwater County	1 280	1 261	-	14	4	-	1	1 259	-	14	4	-
Carbon County	3 269	3 246	1	11	4	7	19	3 235	1	10	4	-
Carter County	589	586	-	3	-	-	1	585	-	3	-	-
Cascade County	30 133	28 615	348	878	160	132	397	28 401	342	836	152	5
Chouteau County	2 064	1 999	2	64	2	-	1	1 999	2	58	2	-
Custer County	4 631	4 559	2	38	10	22	55	4 530	1	36	9	-
Daniels County	919	915	-	2	2	-	2	913	-	2	2	-
Dawson County	3 691	3 659	-	23	4	5	13	3 652	-	22	4	-
Deer Lodge County	4 060	3 971	9	67	5	8	34	3 945	9	67	5	-
Fallon County	1 166	1 160	-	3	2	1	2	1 159	-	3	2	-
Fergus County	4 603	4 555	-	4	36	2	6	4 544	35	3	2	-
Flathead County	22 834	22 441	19	274	54	46	176	22 316	18	272	50	2
Gallatin County	19 015	18 622	20	198	132	43	181	18 489	19	194	127	5
Garfield County	577	575	-	2	-	-	2	575	-	-	-	-
Glauber County	3 816	1 942	6	1 862	3	19	1	1 941	6	1 847	3	-
Golden Valley County	330	326	-	2	1	1	2	325	-	2	1	-
Granite County	1 051	1 041	-	7	2	1	5	1 037	-	7	2	-
Hill County	6 426	5 688	7	689	30	12	52	5 657	7	680	30	-
Jefferson County	2 867	2 813	2	43	4	5	26	2 791	1	43	4	2
Judith Basin County	908	903	-	5	-	-	2	901	-	5	-	-
Lake County	7 814	6 296	4	1 491	4	19	91	6 272	4	1 442	3	2
Lewis and Clark County	18 649	18 201	23	325	57	43	150	18 109	20	314	55	1
Liberty County	788	784	-	4	-	-	1	783	-	-	-	-
Lincoln County	6 668	6 547	3	92	14	12	62	6 500	3	88	14	1
McCone County	844	844	-	4	-	-	4	840	-	-	-	-
Madison County	2 387	2 361	-	15	5	6	23	2 345	-	14	5	-
Meagher County	709	701	-	7	-	1	4	699	-	6	-	-
Mineral County	1 282	1 253	-	22	5	2	10	1 246	-	21	5	-
Missoula County	30 782	29 863	67	542	238	72	282	29 680	65	518	232	5
Musselshell County	1 661	1 645	-	10	2	4	7	1 642	-	10	2	-
Park County	5 619	5 546	18	25	10	20	55	5 513	17	24	9	1
Petroleum County	209	208	-	1	-	-	-	208	-	-	-	-
Phillips County	1 931	1 802	1	122	2	4	9	1 797	1	122	2	-
Pondera County	2 246	2 060	2	174	4	6	7	2 060	2	173	4	-
Powder River County	805	795	-	8	-	2	5	792	-	8	-	-
Powell County	2 234	2 199	1	27	5	2	11	2 190	1	27	5	-
Prairie County	568	563	-	5	-	-	2	561	-	5	-	-
Ravalli County	9 698	9 581	5	72	19	21	86	9 517	4	72	18	1
Richland County	3 956	3 880	1	34	5	36	65	3 853	-	34	4	-
Roosevelt County	3 694	2 181	3	1 493	15	2	13	2 178	3	1 484	15	1
Rosebud County	3 479	2 756	8	687	8	20	48	2 744	7	672	8	-
Sanders County	3 397	3 198	5	186	6	2	26	3 179	5	182	5	-
Shenando County	1 899	1 877	-	20	2	4	4	1 875	-	20	2	-
Silver Bow County	13 899	13 595	11	178	36	79	251	13 436	11	166	34	1
Stillwater County	2 823	2 500	-	13	1	9	14	2 496	-	12	1	-
Sweet Grass County	1 281	1 277	-	3	1	-	1	1 276	-	3	1	-
Teton County	2 329	2 292	1	33	-	3	11	2 284	1	33	-	-
Toole County	1 922	1 885	1	32	4	-	7	1 878	1	32	4	-
Treasure County	333	333	-	2	-	-	12	325	-	2	-	-
Valley County	3 268	3 036	4	217	7	4	18	3 026	4	212	7	1
Wheatland County	849	840	1	5	2	1	3	838	1	5	2	-
Wibaux County	454	451	-	1	-	-	-	452	-	-	-	-
Yellowstone County	44 689	43 092	172	895	151	379	950	42 554	159	868	149	9
Yellowstone National Park	24	24	-	-	-	-	-	24	-	-	-	-
PLACE AND COUNTY SUBDIVISION												
Anaconda-Deer Lodge County	4 060	3 971	9	67	5	8	34	3 945	9	67	5	-
Billings city	33 181	31 865	154	727	124	311	769	31 437	142	704	122	7
Bozeman city	8 751	8 459	18	125	117	32	106	8 390	17	121	114	3
Butte-Silver Bow (remainder)	13 651	13 353	1	175	35	77	250	13 194	11	163	33	-
Great Falls city	22 639	21 468	211	746	127	87	284	21 311	209	710	122	3
Hailey city	4 027	3 737	5	254	26	5	38	3 710	5	248	26	-
Helena city	10 428	10 166	20	178	38	26	96	10 107	18	169	38	-
Kalispell city	5 237	5 122	6	80	19	10	41	5 093	6	80	16	1
Missoula city	17 677	17 065	55	315	195	47	351	16 957	54	301	191	5
Orchard Homes CDP	4 169	4 060	6	68	27	8	29	4 032	6	66	26	-
Butte-Silver Bow	13 899	13 595	11	178	36	79	251	13 436	11	166	34	1

Table 12. Selected Housing and Household Characteristics and Land Area for American Indian and Alaska Native Areas: 1990

[For definitions of terms and meanings of symbols, see text]

Congressional District American Indian Area	All housing units		Occupied housing units with American Indian, Eskimo, or Aleut householder				Households with American Indian, Eskimo, or Aleut householder				Land area			
	TotalOccupied		Owner occupied		Renter occupied		Family households		Nonfamily households		TotalHouseholder living alone		Square kilo- metersSquare miles	
			Total	Mean value (dollars), specified owner	Total	Mean con- tract rent (dollars), specified renter paying cash rent	Total	Married- couple family	Female house- holder, no husband present					
One Representative at Large	361 155	306 163	6 343	44 800	6 887	174	10 447	6 036	3 469	2 783	2 286	376 990.9	145 556.3	
AMERICAN INDIAN RESERVATION AND TRUST LAND														
All areas	22 142	17 525	4 564	42 600	3 651	121	6 812	3 924	2 201	1 403	1 197	33 858.6	13 072.8	
Blackfeet Reservation, MT	3 004	2 333	969	41 100	903	113	1 571	930	479	301	260	6 141.9	2 371.4	
Crow Reservation and Trust Lands, MT	2 091	1 675	653	40 000	424	122	978	636	278	99	92	9 257.0	3 574.1	
Flathead Reservation, MT	10 399	7 874	1 045	54 000	687	144	1 285	773	392	447	376	5 019.8	1 938.2	
Fort Belknap Reservation and Trust Lands, MT	856	716	357	43 200	299	88	537	286	192	119	107	2 625.8	1 013.8	
Fort Peck Reservation, MT	3 983	3 443	777	40 200	814	129	1 318	688	468	273	223	8 518.7	3 289.1	
Northern Cheyenne Reservation and Trust Lands, MT—SD (pt.)	1 291	1 045	554	36 800	326	114	750	395	279	130	110	1 811.2	699.3	
Rocky Boy's Reservation and Trust Lands, MT	514	437	209	30 100	198	86	373	216	113	34	29	435.9	168.3	
Crow/Northern Cheyenne Area, MT	4	2	—	—	—	—	—	—	—	—	—	48.2	18.6	

Table 13. General, Family, and Fertility Characteristics: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District	The State	One Representative of Large
URBAN, RURAL, AND FARM RESIDENCE		
All persons	799 065	799 065
Urban	419 989	419 989
Inside urbanized area	208 743	208 743
Outside urbanized area	211 246	211 246
Rural	379 076	379 076
Farm	45 718	45 718
ANCESTRY		
All persons	799 065	799 065
Ancestry specified	736 327	736 327
Single ancestry	406 777	406 777
Multiple ancestry	329 550	329 550
Ancestry unclassified or not reported	62 738	62 738
Total ancestries reported	1 065 877	1 065 877
Arab	1 165	1 165
Austrian	5 556	5 556
Belgian	2 450	2 450
Canadian	1 497	1 497
Czech	9 575	9 575
Danish	16 752	16 752
Dutch	27 018	27 018
English	137 187	137 187
Finnish	7 324	7 324
French (except Basque)	43 081	43 081
French Canadian	8 015	8 015
German	285 554	285 554
Greek	1 920	1 920
Hungarian	2 750	2 750
Irish	138 906	138 906
Italian	21 461	21 461
Lithuanian	915	915
Norwegian	86 460	86 460
Polish	15 736	15 736
Portuguese	1 421	1 421
Romanian	572	572
Russian	7 766	7 766
Scotch-Irish	25 369	25 369
Scottish	27 904	27 904
Slovak	3 907	3 907
Subsaharan African	136	136
Swedish	36 784	36 784
Swiss	5 754	5 754
Ukrainian	1 478	1 478
United States or American	24 188	24 188
Welsh	9 704	9 704
West Indian (excluding Hispanic origin groups)	75	75
Yugoslavian	4 141	4 141
Other ancestries	103 356	103 356
NATIVITY AND CITIZENSHIP		
Persons under 18 years	222 787	222 787
Citizen	222 263	222 263
Native	222 214	222 214
Foreign born, naturalized citizen	49	49
Foreign born, not a citizen	524	524
Persons 18 years and over	576 278	576 278
Citizen	571 644	571 644
Native	563 072	563 072
Foreign born, naturalized citizen	8 572	8 572
Foreign born, not a citizen	4 634	4 634
FAMILY TYPE BY PRESENCE OF OWN CHILDREN		
Families	213 625	213 625
With own children under 18 years	108 462	108 462
Number of own children under 18 years	209 252	209 252
Married-couple families	179 099	179 099
With own children under 18 years	86 022	86 022
Number of own children under 18 years	170 756	170 756
Female householder, no husband present	25 885	25 885
With own children under 18 years	17 595	17 595
Number of own children under 18 years	30 941	30 941
MARITAL STATUS		
Males 15 years and over	299 505	299 505
Never married	77 548	77 548
Now married, except separated	186 120	186 120
Separated	3 273	3 273
Widowed	7 369	7 369
Divorced	25 195	25 195
Females 15 years and over	312 034	312 034
Never married	56 462	56 462
Now married, except separated	183 895	183 895
Separated	4 482	4 482
Widowed	36 787	36 787
Divorced	30 408	30 408
FERTILITY		
Children ever born per 1,000 women 15 to 24 years	296	296
Children ever born per 1,000 women 25 to 34 years	1 564	1 564
Children ever born per 1,000 women 35 to 44 years	2 107	2 107

Table 14. Social Characteristics: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District	One Representative at Large	
	The State	
PLACE OF BIRTH		
All persons	799 065	799 065
Native	785 286	785 286
Born in State of residence	470 861	470 861
Born in a different State	308 308	308 308
Born abroad	6 117	6 117
Foreign born	13 779	13 779
Nonnaturalized citizen	8 621	8 621
Not a citizen	5 158	5 158
LANGUAGE SPOKEN AT HOME AND ABILITY TO SPEAK ENGLISH		
Persons 5 years and over	740 218	740 218
Speak a language other than English	37 020	37 020
Do not speak English "very well"	11 457	11 457
Linguistically isolated	3 533	3 533
Speak Spanish	8 083	8 083
Do not speak English "very well"	2 398	2 398
Linguistically isolated	761	761
Speak an Asian or Pacific Island language	2 412	2 412
Do not speak English "very well"	1 054	1 054
Linguistically isolated	462	462
Linguistically isolated households	2 268	2 268
SCHOOL ENROLLMENT AND TYPE OF SCHOOL		
Persons 3 years and over enrolled in school	215 759	215 759
Preprimary school	14 759	14 759
Public school	10 484	10 484
Elementary or high school	150 776	150 776
Public school	142 860	142 860
College	50 224	50 224
Public college	44 016	44 016
EDUCATIONAL ATTAINMENT		
Persons 25 years and over	507 851	507 851
Less than 9th grade	41 144	41 144
9th to 12th grade, no diploma	55 325	55 325
High school graduate (includes equivalency)	170 070	170 070
Some college, no degree	112 236	112 236
Associate's degree	28 555	28 555
Bachelor's degree	71 610	71 610
Graduate or professional degree	28 911	28 911
Percent high school graduate or higher	81.0	81.0
Percent bachelor's degree or higher	19.8	19.8
RESIDENCE IN 1985		
Persons 5 years and over	740 218	740 218
Same house	385 101	385 101
Different house in the United States	349 440	349 440
Same county	184 592	184 592
Different county	164 848	164 848
Same State	80 325	80 325
Different State	84 523	84 523
Northeast	4 325	4 325
Midwest	19 571	19 571
South	12 376	12 376
West	48 251	48 251
Puerto Rico	13	13
U.S. outlying area	214	214
Elsewhere	5 450	5 450
MEANS OF TRANSPORTATION TO WORK AND TRAVEL TIME TO WORK		
Workers 16 years and over	349 184	349 184
Car, truck, or van	291 815	291 815
Drove alone	250 373	250 373
Carpooled	41 442	41 442
Public transportation	2 050	2 050
Walked	27 022	27 022
Other means	6 421	6 421
Worked at home	21 876	21 876
Mean travel time to work (minutes)	14.8	14.8
VETERAN STATUS AND PERIOD OF SERVICE		
Civilian veterans 16 years and over	102 536	102 536
May 1975 or later service only	10 254	10 254
September 1980 or later service only	5 502	5 502
Served 2 or more years	4 510	4 510
Vietnam era, no Korean conflict	30 853	30 853
Vietnam era and Korean conflict	1 836	1 836
February 1955 to July 1964 only	11 497	11 497
Korean conflict, no World War II	14 173	14 173
Korean conflict and World War II	2 391	2 391
World War II, no Korean conflict	30 572	30 572
World War II	251	251
Other service	709	709
DISABILITY		
Civilian noninstitutionalized persons 16 to 64 years	484 725	484 725
With a mobility or self-care limitation	13 918	13 918
With a mobility limitation	7 877	7 877
In labor force	1 693	1 693
With a self-care limitation	9 583	9 583
With a work disability	47 041	47 041
In labor force	20 578	20 578
Prevented from working	21 971	21 971
No work disability	437 684	437 684
In labor force	342 782	342 782
Civilian noninstitutionalized persons 65 years and over	99 188	99 188
With a mobility or self-care limitation	14 597	14 597
With a mobility limitation	11 838	11 838
With a self-care limitation	7 781	7 781

Table 15. Labor Force Characteristics: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District	One Representative at Large	
	The State	
LABOR FORCE STATUS		
Persons 16 years and over	599 765	599 765
In labor force	381 860	381 860
Civilian labor force	376 940	376 940
Employed	350 723	350 723
Unemployed	26 217	26 217
Females 16 years and over	306 522	306 522
In labor force	171 007	171 007
Civilian labor force	170 412	170 412
Employed	160 037	160 037
Unemployed	10 375	10 375
With own children under 6 years	48 449	48 449
In labor force	30 165	30 165
With own children 6 to 17 years only	57 117	57 117
In labor force	44 134	44 134
Own children under 6 years in families and subfamilies living with two parents	55 875	55 875
Both parents in labor force	32 348	32 348
Own children under 6 years in families and subfamilies living with one parent	13 837	13 837
Parent in labor force	8 392	8 392
Own children 6 to 17 years in families and subfamilies living with two parents	115 394	115 394
Both parents in labor force	78 797	78 797
Own children 6 to 17 years in families and subfamilies living with one parent	28 968	28 968
Parent in labor force	22 223	22 223
Persons 16 to 19 years	45 089	45 089
Not enrolled in school	8 237	8 237
Unemployed or not in labor force	3 425	3 425
Not high school graduate	3 639	3 639
Employed	1 488	1 488
Unemployed	704	704
Not in labor force	1 438	1 438
CLASS OF WORKER		
Employed persons 16 years and over	350 723	350 723
Private wage and salary workers	230 464	230 464
Local government workers	29 367	29 367
State government workers	23 795	23 795
Federal government workers	17 118	17 118
Self-employed workers	46 443	46 443
Unpaid family workers	3 536	3 536
OCCUPATION		
Employed persons 16 years and over	350 723	350 723
Managerial and professional specialty occupations	84 397	84 397
Executive, administrative, and managerial occupations	35 721	35 721
Professional specialty occupations	48 676	48 676
Technical, sales, and administrative support occupations	99 617	99 617
Technicians and related support occupations	9 865	9 865
Sales occupations	40 031	40 031
Administrative support occupations, including dental	49 721	49 721
Service occupations	57 604	57 604
Private household occupations	1 461	1 461
Protective service occupations	4 678	4 678
Service occupations, except protective and household	51 465	51 465
Forming, forestry, and fishing occupations	28 875	28 875
Precision production, craft, and repair occupations	36 611	36 611
Operators, fabricators, and laborers	43 619	43 619
Machine operators, assemblers, and inspectors	12 835	12 835
Transportation and material moving occupations	17 584	17 584
Handlers, equipment cleaners, helpers, and laborers	13 200	13 200
INDUSTRY		
Employed persons 16 years and over	350 723	350 723
Agriculture, forestry, fisheries, and mining	39 350	39 350
Construction	20 169	20 169
Manufacturing	26 541	26 541
Nonurable goods	9 396	9 396
Durable goods	17 145	17 145
Transportation	16 424	16 424
Communications and other public utilities	9 345	9 345
Wholesale trade	12 919	12 919
Retail trade	68 165	68 165
Finance, insurance, and real estate	17 397	17 397
Business and repair services	13 706	13 706
Personal, entertainment, and recreation services	17 754	17 754
Professional and related services	89 180	89 180
Health services	30 137	30 137
Educational services	35 445	35 445
Other professional and related services	23 598	23 598
Public administration	19 773	19 773
WORK STATUS IN 1989		
Persons 16 years and over who worked in 1989	429 221	429 221
Usually worked 35 or more hours per week	320 456	320 456
50 to 52 weeks	208 153	208 153
40 to 49 weeks	36 483	36 483
27 to 39 weeks	25 070	25 070
Usually worked 1 to 34 hours per week, 40 to 52 weeks	52 079	52 079
WORKERS IN FAMILY IN 1989		
No workers	27 681	27 681
Mean family income (dollars)	18 604	18 604
1 worker	59 226	59 226
Mean family income (dollars)	27 160	27 160
2 or more workers	126 718	126 718
Mean family income (dollars)	39 478	39 478

Table 16. Income and Poverty Status in 1989: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District	The State	One Representative at Large
INCOME IN 1989		
Households	306 919	306 919
Less than \$5,000	22 480	22 480
\$5,000 to \$9,999	38 514	38 514
\$10,000 to \$14,999	37 554	37 554
\$15,000 to \$24,999	66 766	66 766
\$25,000 to \$34,999	52 485	52 485
\$35,000 to \$49,999	48 894	48 894
\$50,000 to \$74,999	28 198	28 198
\$75,000 to \$99,999	6 803	6 803
\$100,000 or more	5 225	5 225
Median (dollars)	22 988	22 988
Mean (dollars)	28 773	28 773
Families	213 625	213 625
Less than \$5,000	9 699	9 699
\$5,000 to \$9,999	15 603	15 603
\$10,000 to \$14,999	21 240	21 240
\$15,000 to \$24,999	46 410	46 410
\$25,000 to \$34,999	41 834	41 834
\$35,000 to \$49,999	42 805	42 805
\$50,000 to \$74,999	25 432	25 432
\$75,000 to \$99,999	6 012	6 012
\$100,000 or more	4 590	4 590
Median (dollars)	28 044	28 044
Mean (dollars)	33 358	33 358
Nonfamily households	93 294	93 294
Median (dollars)	12 502	12 502
Mean (dollars)	17 452	17 452
Per capita income (dollars)	11 213	11 213
Per capita income, noninstitutionalized persons (dollars)	11 286	11 286
INCOME TYPE IN 1989		
Households	306 919	306 919
With earnings	245 172	245 172
Mean earnings (dollars)	28 000	28 000
With Social Security income	86 954	86 954
Mean Social Security income (dollars)	7 714	7 714
With public assistance income	20 827	20 827
Mean public assistance income (dollars)	3 620	3 620
With retirement income	46 572	46 572
Mean retirement income (dollars)	8 435	8 435
MEAN FAMILY INCOME IN 1989 BY FAMILY TYPE		
Families (dollars)	33 358	33 358
With own children under 18 years (dollars)	32 439	32 439
No own children under 18 years (dollars)	34 306	34 306
Married-couple families (dollars)	36 267	36 267
With own children under 18 years (dollars)	37 127	37 127
No own children under 18 years (dollars)	35 473	35 473
Female householder, no husband present (dollars)	15 794	15 794
With own children under 18 years (dollars)	12 634	12 634
No own children under 18 years (dollars)	22 502	22 502
POVERTY STATUS IN 1989		
All Income Levels In 1989		
Families	213 625	213 625
With related children under 18 years	112 403	112 403
With related children under 5 years	44 678	44 678
Married-couple families	179 099	179 099
With related children under 18 years	88 061	88 061
With related children under 5 years	36 257	36 257
Female householder, no husband present	25 885	25 885
With related children under 18 years	19 072	19 072
With related children under 5 years	6 738	6 738
Unrelated individuals for whom poverty status is determined	121 351	121 351
Nonfamily householder	93 294	93 294
Persons 65 years and over	34 269	34 269
Persons for whom poverty status is determined	776 793	776 793
Persons under 18 years	218 523	218 523
Persons under 5 years	57 600	57 600
Related children under 18 years	216 898	216 898
Related children 5 to 17 years	159 298	159 298
Persons 65 years and over	99 177	99 177
Persons 75 years and over	39 180	39 180
Income in 1989 Below Poverty Level		
Families	25 691	25 691
Percent below poverty level	12.0	12.0
With related children under 18 years	19 766	19 766
With related children under 5 years	10 123	10 123
Married-couple families	13 667	13 667
With related children under 18 years	8 956	8 956
With related children under 5 years	4 906	4 906
Female householder, no husband present	10 270	10 270
With related children under 18 years	9 407	9 407
With related children under 5 years	4 521	4 521
Unrelated individuals for whom poverty status is determined	37 353	37 353
Nonfamily householder	22 433	22 433
Persons 65 years and over	8 310	8 310
Persons for whom poverty status is determined	124 853	124 853
Percent below poverty level	16.1	16.1
Persons under 18 years	44 706	44 706
Persons under 5 years	13 980	13 980
Related children under 18 years	43 237	43 237
Related children 5 to 17 years	29 257	29 257
Persons 65 years and over	12 433	12 433
Persons 75 years and over	6 517	6 517
Ratio Of Income In 1989 To Poverty Level		
Persons below 50 percent of poverty level	52 014	52 014
Persons below 125 percent of poverty level	170 237	170 237
Persons below 200 percent of poverty level	309 656	309 656

Table 17. Selected Characteristics of Persons by Race and Hispanic Origin: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District	Montana					One Representative at Large				
	Race					Race				
	White	Black	American Indian, Eskimo, or Aleut	Asian or Pacific Islander	Hispanic origin (of any race)	White	Black	American Indian, Eskimo, or Aleut	Asian or Pacific Islander	Hispanic origin (of any race)
SEX AND AGE										
All persons	741 340	2 047	47 769	4 256	12 167	741 340	2 047	47 769	4 256	12 167
Male	366 920	1 181	23 709	1 891	6 191	366 920	1 181	23 709	1 891	6 191
Female	374 420	866	24 060	2 365	5 976	374 420	866	24 060	2 365	5 976
Under 5 years	51 735	250	5 952	511	1 642	51 735	250	5 952	511	1 642
5 to 9 years	57 922	222	5 994	306	1 504	57 922	222	5 994	306	1 504
10 to 14 years	58 125	163	4 993	334	1 539	58 125	163	4 993	334	1 539
15 to 19 years	51 332	173	4 512	447	1 093	51 332	173	4 512	447	1 093
20 to 24 years	42 100	253	3 634	510	964	42 100	253	3 634	510	964
25 to 34 years	113 492	423	8 443	796	2 125	113 492	423	8 443	796	2 125
35 to 44 years	120 426	247	6 227	617	1 571	120 426	247	6 227	617	1 571
45 to 54 years	77 159	98	3 687	360	692	77 159	98	3 687	360	692
55 to 64 years	65 160	121	2 206	263	547	65 160	121	2 206	263	547
65 to 74 years	59 578	74	1 392	134	287	59 578	74	1 392	134	287
75 to 84 years	33 980	5	617	29	147	33 980	5	617	29	147
85 years and over	10 331	18	112	29	56	10 331	18	112	29	56
3 and 4 years	21 881	95	2 238	248	711	21 881	95	2 238	248	711
5 to 14 years	562 879	1 381	29 874	3 152	7 245	562 879	1 381	29 874	3 152	7 245
18 years and over	541 633	1 323	28 045	2 970	6 761	541 633	1 323	28 045	2 970	6 761
21 years and over	513 430	1 206	25 604	2 622	6 146	513 430	1 206	25 604	2 622	6 146
60 years and over	136 601	171	3 082	264	718	136 601	171	3 082	264	718
62 years and over	123 356	143	2 724	235	610	123 356	143	2 724	235	610
Median age	34.7	24.4	23.4	26.2	21.4	34.7	24.4	23.4	26.2	21.4
FAMILY TYPE BY PRESENCE OF OWN CHILDREN										
Families	200 989	426	10 680	645	2 304	200 989	426	10 680	645	2 304
With own children under 18 years	99 733	293	7 465	369	1 485	99 733	293	7 465	369	1 485
Married-couple families	171 348	326	6 240	519	1 676	171 348	326	6 240	519	1 676
With own children under 18 years	80 702	224	4 389	307	985	80 702	224	4 389	307	985
Female householder, no husband present	22 096	69	3 474	69	501	22 096	69	3 474	69	501
With own children under 18 years	14 891	56	2 444	52	397	14 891	56	2 444	52	397
SCHOOL ENROLLMENT AND TYPE OF SCHOOL										
Persons 3 years and over enrolled in school	194 615	705	17 562	1 627	4 566	194 615	705	17 562	1 627	4 566
Preparatory	13 000	93	1 493	99	336	13 000	93	1 493	99	336
Elementary or high school	135 822	430	12 832	811	3 413	135 822	430	12 832	811	3 413
College	45 793	182	3 237	717	817	45 793	182	3 237	717	817
EDUCATIONAL ATTAINMENT										
Persons 25 years and over	480 126	986	22 684	2 228	5 425	480 126	986	22 684	2 228	5 425
Less than 9th grade	37 902	75	2 580	257	844	37 902	75	2 580	257	844
9th to 12th grade, no diploma	49 963	113	4 654	222	977	49 963	113	4 654	222	977
High school graduate (includes equivalency)	162 162	221	6 592	572	1 753	162 162	221	6 592	572	1 753
Some college, no degree	105 704	319	5 481	361	970	105 704	319	5 481	361	970
Associate degree	22 098	77	1 591	101	291	22 098	77	1 591	101	291
Bachelor's degree	69 605	164	1 281	461	365	69 605	164	1 281	461	365
Graduate or professional degree	28 092	17	505	254	225	28 092	17	505	254	225
Percent high school graduate or higher	81.7	80.9	68.1	78.5	66.4	81.7	80.9	68.1	78.5	66.4
Percent bachelor's degree or higher	20.3	18.4	7.9	32.1	10.9	20.3	18.4	7.9	32.1	10.9
LABOR FORCE STATUS										
Persons 16 years and over	562 879	1 381	29 874	3 152	7 245	562 879	1 381	29 874	3 152	7 245
In labor force	360 051	911	17 261	1 944	4 760	360 051	911	17 261	1 944	4 760
Civilian labor force	335 631	615	17 184	1 893	4 580	335 631	615	17 184	1 893	4 580
Employed	334 318	521	12 676	1 771	4 039	334 318	521	12 676	1 771	4 039
Unemployed	21 313	94	4 508	122	541	21 313	94	4 508	122	541
Not in labor force	202 828	470	12 613	1 208	2 485	202 828	470	12 613	1 208	2 485
Females 16 years and over	287 749	510	15 441	1 812	3 665	287 749	510	15 441	1 812	3 665
In labor force	161 053	297	8 002	1 040	2 228	161 053	297	8 002	1 040	2 228
Civilian labor force	160 492	271	7 997	1 040	2 218	160 492	271	7 997	1 040	2 218
Employed	152 023	233	6 270	938	1 981	152 023	233	6 270	938	1 981
Unemployed	8 469	38	1 072	102	237	8 469	38	1 072	102	237
Not in labor force	126 696	213	7 439	772	1 437	126 696	213	7 439	772	1 437
Persons 16 to 19 years	40 653	142	3 556	414	856	40 653	142	3 556	414	856
Not enrolled in school	7 070	23	1 022	30	169	7 070	23	1 022	30	169
Unemployed or not in labor force	2 587	11	746	25	111	2 587	11	746	25	111
Not high school graduate	2 823	9	763	13	94	2 823	9	763	13	94
Employed	1 317	—	154	3	24	1 317	—	154	3	24
Unemployed	513	3	183	—	11	513	3	183	—	11
Not in labor force	984	6	426	10	59	984	6	426	10	59
INCOME AND POVERTY STATUS IN 1989										
Households	290 512	628	13 559	1 065	3 132	290 512	628	13 559	1 065	3 132
Less than \$5,000	19 762	67	2 334	168	387	19 762	67	2 334	168	387
\$5,000 to \$9,999	35 172	106	2 884	140	523	35 172	106	2 884	140	523
\$10,000 to \$14,999	35 173	88	1 971	120	473	35 173	88	1 971	120	473
\$15,000 to \$24,999	63 451	142	2 739	187	754	63 451	142	2 739	187	754
\$25,000 to \$34,999	50 426	106	1 622	163	454	50 426	106	1 622	163	454
\$35,000 to \$49,999	47 169	78	1 338	177	383	47 169	78	1 338	177	383
\$50,000 to \$74,999	27 548	36	539	46	140	27 548	36	539	46	140
\$75,000 to \$99,999	6 670	9	89	35	3	6 670	9	89	35	3
\$100,000 or more	5 141	6	43	29	15	5 141	6	43	29	15
Mean income (dollars)	29 304	22 823	18 643	26 376	21 383	29 304	22 823	18 643	26 376	21 383
Per capita income (dollars)	11 634	7 657	5 422	8 443	6 021	11 634	7 657	5 422	8 443	6 021

Table 17. **Selected Characteristics of Persons by Race and Hispanic Origin: 1990—Con.**

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District	Montana						One Representative at Large					
	Race					Hispanic origin (of any race)	Race					Hispanic origin (of any race)
	White	Black	American Indian, Eskimo, or Aleut	Asian or Pacific Islander	White		Black	American Indian, Eskimo, or Aleut	Asian or Pacific Islander			
INCOME AND POVERTY STATUS IN 1989—Con.												
All Income Levels In 1989												
Families	200 989	426	10 680	645	2 304	200 989	426	10 680	645	2 304		
With related children under 18 years.....	102 682	298	8 432	379	1 539	102 682	298	8 432	379	1 539		
With related children under 5 years.....	39 840	142	4 260	164	784	39 840	142	4 260	164	784		
Married-couple families	171 348	326	6 260	519	1 676	171 348	326	6 260	519	1 676		
With related children under 18 years.....	82 392	224	4 731	309	1 013	82 392	224	4 731	309	1 013		
With related children under 5 years.....	33 388	107	2 427	138	506	33 388	107	2 427	138	506		
Female householder, no husband present	22 096	69	3 474	69	501	22 096	69	3 474	69	501		
With related children under 18 years.....	15 820	56	2 979	60	423	15 820	56	2 979	60	423		
With related children under 5 years.....	5 233	30	1 402	21	218	5 233	30	1 402	21	218		
Persons for whom poverty status is determined.	721 083	1 843	46 377	4 064	11 646	721 083	1 843	46 377	4 064	11 646		
Persons under 18 years.....	196 068	710	19 166	1 274	5 209	196 068	710	19 166	1 274	5 209		
Persons under 5 years.....	50 653	250	5 800	508	1 585	50 653	250	5 800	508	1 585		
Persons 65 years and over.....	96 839	80	1 986	172	432	96 839	80	1 986	172	432		
Persons 75 years and over.....	38 416	23	663	44	145	38 416	23	663	44	145		
Income In 1989 Below Poverty Level												
Families	20 774	121	4 432	116	610	20 774	121	4 432	116	610		
With related children under 18 years.....	15 424	85	3 971	64	554	15 424	85	3 971	64	554		
With related children under 5 years.....	7 585	49	2 354	30	309	7 585	49	2 354	28	309		
Married-couple families	11 653	80	1 737	75	248	11 653	80	1 737	75	248		
With related children under 18 years.....	7 234	57	1 524	40	215	7 234	57	1 524	40	215		
With related children under 5 years.....	3 833	29	974	21	112	3 833	29	974	21	112		
Female householder, no husband present	7 846	28	2 261	28	300	7 846	28	2 261	28	300		
With related children under 18 years.....	7 199	22	2 065	19	289	7 199	22	2 065	19	289		
With related children under 5 years.....	3 341	15	1 114	7	157	3 341	15	1 114	7	157		
Persons for whom poverty status is determined.	100 915	571	21 362	819	3 493	100 915	571	21 362	819	3 493		
Persons under 18 years.....	33 458	221	10 238	224	1 874	33 458	221	10 238	224	1 874		
Persons under 5 years.....	10 172	112	3 457	57	604	10 172	112	3 457	57	604		
Persons 65 years and over.....	11 652	25	723	16	65	11 652	25	723	16	65		
Persons 75 years and over.....	6 220	—	285	—	23	6 220	—	285	—	23		

Table 18. Selected Social Characteristics: 1990

[Data based on sample and subject to sampling variability; see text. For definitions of terms and meanings of symbols, see text.]

State Congressional District County Place and (In Selected Subdivisions) [10,000 or More Persons]	All persons			Persons 5 years and over		Persons 18 years and over		Persons who speak a language other than English at home		Family households						
	Total	Native		Total	Percent living in different house in 1985	Total	Percent who do not speak English "very well"	Total	Percent who do not speak English "very well"	Total	Percent with own children under 18 years	Married-couple family		Total	Percent with own children under 18 years	
		Percent born in State of residence														
		Percent foreign born	Total													
The State	799 045	1.7	785 286	60.0	740 218	48.0	6 392	32.9	30 638	30.5	213 625	50.8	179 099	48.0	25 885	46.0
COUNTY																
Beaverhead County	8 424	2.1	8 249	58.9	7 810	50.2	58	25.9	154	50.6	2 153	49.6	1 826	47.6	254	66.8
Big Horn County	11 337	1.1	11 307	72.1	10 112	44.7	1 166	49.1	2 906	33.3	2 690	61.4	2 081	47.6	484	68.4
Blaine County	6 778	1.1	6 657	79.2	6 090	41.7	41	14.6	253	27.3	1 709	54.6	1 316	49.5	296	72.0
Carbon County	8 088	1.3	7 977	62.0	7 616	43.6	20	20.0	342	14.0	2 334	45.0	2 055	42.5	225	69.3
Carter County	7 503	1.1	7 496	53.4	1 398	35.0	5	48.9	24	8.3	269	45.2	207	47.7	26	26.6
Custer County	11 399	1.4	11 314	62.1	7 590	35.1	493	38.9	2 860	27.4	21 289	42.3	17 471	46.9	2 198	63.0
Deer Lodge County	11 697	1.6	11 511	62.1	10 938	44.7	68	14.7	338	48.2	3 100	50.3	2 548	46.0	426	51.6
Daniels County	2 266	1.1	2 127	76.9	2 163	29.8	8	1.7	169	16.9	634	43.4	547	43.1	52	53.8
Dewey County	9 505	1.8	9 445	61.6	8 869	40.2	106	47.1	404	39.5	2 666	46.5	2 328	44.5	279	64.9
Deer Lodge County	10 278	1.6	10 097	72.2	9 702	38.4	70	7.1	475	39.2	2 670	45.3	2 229	45.0	313	60.9
Fallon County	3 103	1.4	3 060	61.2	2 867	33.1	140	36.4	140	36.4	873	49.9	804	49.9	49	59.2
Fergus County	10 183	1.5	10 113	52.0	9 350	38.1	35	3.7	250	25.0	2 598	51.5	2 100	46.6	498	63.6
Flint County	59 213	2.2	49 359	49.3	46 987	60.8	289	31.8	1 279	30.5	12 469	50.2	10 791	48.2	1 195	69.7
Golden Valley County	12 911	1.4	12 822	78.5	11 848	39.8	165	79.2	983	34.9	2 569	50.8	2 104	45.9	515	61.7
Grant County	11 912	1.8	11 896	72.2	10 848	33.4	17	82.4	86	93.0	224	45.1	202	45.5	12	75.0
Granite County	2 548	1.6	2 533	57.0	2 379	46.0	10	30.0	45	37.8	716	46.4	631	45.4	52	76.9
Hill County	17 454	1.9	17 311	73.9	16 151	43.8	190	44.3	942	37.2	4 517	56.2	3 764	53.3	596	74.8
Jefferson County	7 939	1.7	7 825	62.9	7 372	49.8	13	23.1	152	17.1	2 139	52.8	1 889	51.9	174	59.8
Johns Basin County	2 282	1.7	2 244	75.5	2 142	29.8	4	—	105	65.7	666	42.9	614	40.1	30	86.7
Liberty County	20 823	2.0	20 823	60.5	19 366	46.4	286	18.6	1 750	22.3	5 766	49.4	5 074	45.9	724	69.2
Liberty County	2 295	2.0	2 290	76.8	2 106	29.2	72	74.4	140	39.3	12 779	52.7	10 518	49.4	1 255	83.6
Lincoln County	17 481	1.4	17 235	49.3	16 286	42.3	136	22.8	538	33.3	4 976	51.3	4 135	49.1	529	59.2
Madison County	5 989	.8	5 940	57.2	5 630	46.2	3	—	134	10.4	1 640	47.3	1 448	45.5	113	72.6
Meagher County	1 819	.9	1 802	66.0	1 700	39.0	41	34.1	110	11.8	478	43.3	429	39.9	26	84.6
Mineral County	3 315	2.8	3 289	44.8	3 120	49.1	2	—	39	15.4	881	49.5	760	46.6	89	77.5
Missoula County	78 687	2.0	76 985	55.2	73 020	58.8	427	31.1	2 129	16.3	20 181	51.9	16 348	48.0	3 044	68.3
Missoula County	4 106	2.4	4 025	62.1	3 907	41.6	25	24.0	129	16.3	1 126	43.3	982	41.4	103	116.2
Port County	14 519	3.8	14 031	50.2	13 556	52.7	71	39.4	533	22.3	3 002	46.7	3 174	44.3	464	54.7
Phillips County	5 163	2.0	5 042	76.0	4 778	40.8	39	59.0	202	20.8	1 377	52.5	1 146	50.8	148	69.2
Pondera County	6 433	2.6	6 264	75.9	5 915	33.8	73	42.5	395	34.8	1 971	51.2	1 366	51.2	179	58.7
Powder River County	2 090	2.6	2 077	52.3	1 924	30.6	28	50.0	138	19.1	1 585	48.9	1 302	45.9	145	52.4
Prairie County	1 383	2.4	1 350	70.4	1 314	28.5	3	66.7	77	53.2	410	39.5	377	40.1	19	31.6
Ravalli County	25 010	1.4	24 652	42.3	23 348	47.4	362	31.1	1 023	8.2	6 932	44.8	6 169	41.7	512	75.2
Richland County	10 716	1.5	10 557	59.0	9 845	42.7	85	45.1	487	33.7	2 554	53.9	2 256	51.4	302	70.9
Rosebud County	10 999	1.0	10 888	73.3	9 807	47.7	85	29.4	711	20.0	2 758	56.8	1 940	45.0	465	62.7
Sanders County	10 505	.6	10 438	66.2	9 532	44.0	157	19.7	886	35.8	2 629	63.7	2 213	63.0	300	67.0
Shelburn County	8 669	1.4	8 550	46.0	8 087	45.5	16	31.3	161	17.4	2 998	47.4	2 072	45.5	192	70.3
Silver Bow County	33 941	1.8	33 342	74.8	31 647	41.1	163	20.2	1 599	31.1	9 072	46.1	7 415	45.0	1 033	57.4
Silverwater County	6 536	1.6	6 494	60.9	6 060	43.2	11	27.3	179	48.0	1 920	48.3	1 702	46.9	223	57.4
Sweet Grass County	6 271	1.5	6 176	69.8	5 859	36.3	163	19.6	262	31.3	1 683	45.8	1 350	44.2	112	73.2
Teton County	5 045	3.8	4 856	70.3	4 679	33.0	72	59.7	231	42.4	1 304	49.2	1 127	46.6	140	67.1
Toole County	5 046	1.1	4 860	70.7	4 679	33.0	72	59.7	231	42.4	1 304	49.2	1 127	46.6	140	67.1
Treasure County	8 874	2.6	8 660	75.5	7 817	29.2	9	—	15	23.8	260	46.9	234	47.2	18	50.0
Valley County	8 239	2.0	8 078	70.7	7 687	34.9	9	50.0	21	23.8	260	46.9	234	47.2	18	50.0
Wheatland County	2 246	1.1	2 222	69.4	2 096	33.8	68	—	214	59.3	2 565	45.5	2 265	44.3	39	58.4
Wibaux County	1 191	1.3	1 175	50.9	1 118	34.0	6	26	26	—	324	47.5	284	48.9	29	31.0
Yellowstone National Park	113 432	1.5	111 572	58.0	105 031	51.3	691	19.7	4 314	33.4	31 013	51.4	25 523	48.0	4 318	66.3

Table 18. Selected Social Characteristics: 1990—Con.

[Data based on sample and subject to sampling variability; see text. For definitions of terms and meanings of symbols, see text.]

State Congressional District County Place and (In Selected States) County Subdivision [10,000 or More Persons]	All persons		Persons 5 years and over		Persons who speak a language other than English at home		Family households								
	Total	Percent foreign born	Native		Percent living in different house in 1985	Persons 5 to 17 years	Persons 18 years and over	Married-couple family		Percent with own children under 18 years		Female householder, no husband present			
			Total	Percent born in State of residence											
One Representative at Large—Con.															
PLACE AND COUNTY SUBDIVISION															
Alameda-Dier Lodge County	10 278	1.8	10 097	72.2	9 702	70	7.1	475	39.2	2 670	45.3	2 239	45.0	313	48.9
Baffin city	81 151	1.6	79 843	57.2	75 013	471	16.6	3 318	34.5	21 816	50.2	17 463	47.0	3 534	65.4
Battle Mountain city	22 660	3.3	21 923	48.6	21 407	151	40.4	1 742	41.2	4 565	48.1	3 668	44.6	1 565	71.2
Battle Mountain city	55 097	3.0	53 443	59.6	50 944	314	39.8	1 991	28.8	15 086	50.3	12 243	45.4	2 247	57.8
Great Falls city	10 322	1.6	10 161	68.3	9 585	41	39.1	310	35.8	2 717	54.6	2 262	50.4	1 391	79.2
Harlem city	22 346	1.2	24 059	59.2	22 543	91	30.8	620	25.0	6 240	50.6	5 034	47.6	1 112	75.3
Harlem city	11 917	1.7	11 709	52.4	11 088	39	61.5	329	20.7	3 123	49.0	2 432	43.0	591	133.2
Katsipell city	42 918	2.8	40 106	61.5	40 106	304	27.3	1 725	32.3	10 163	50.1	7 853	45.8	1 818	68.2
Massachusetts city	10 317	1.9	10 172	54.1	9 872	62	50.0	458	31.7	2 870	44.4	2 425	45.0	1 414	57.9
Montezuma city	33 941	1.8	33 342	74.8	31 447	163	29.2	1 159	31.1	9 872	46.1	7 415	45.0	1 222	57.4

Table 19. Education and Veteran Status: 1990

[Data based on sample and subject to sampling variation, see text. For definitions of terms and meanings of symbols, see text.]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	Persons 3 years and over enrolled in school					Persons 16 to 19 years					Persons 25 years and over			Civilian veterans 16 years and over	
	Preprimary school	Elementary or high school		College	Total	Not enrolled in school and not high school graduate				Total	Percent high graduate or higher	Percent with bachelor's degree or higher	Total	65 years and over	
		Total	Percent in private school			Total	Total	Employed	Unem- ployed						Not in labor force
The State	14 759	150 776	5.3	50 224	45 089	3 639	1 488	704	1 438	507 851	81.0	19.8	102 536	26 291	
One Representative at Large	14 759	150 776	5.3	50 224	45 089	3 639	1 488	704	1 438	507 851	81.0	19.8	102 536	26 291	
COUNTY															
Beaverhead County	105	1 648	1.4	948	484	—	—	—	—	5 131	83.9	20.6	1 158	281	
Big Horn County	283	2 734	10.6	554	708	109	15	26	68	6 183	69.2	12.8	1 151	213	
Blaine County	227	1 509	2.6	259	399	19	5	6	8	3 970	70.4	14.4	753	177	
Broadwater County	28	690	—	34	175	34	—	—	2	2 184	73.9	13.5	513	139	
Carbon County	88	1 670	1.1	201	375	18	15	3	—	2 609	78.1	19.2	1 056	382	
Carter County	26	249	2.4	21	64	—	—	—	—	1 032	76.0	10.8	158	60	
Cascade County	1 421	13 880	4.7	3 670	3 947	362	188	88	86	49 198	82.9	18.4	11 021	2 574	
Chouteau County	108	1 041	9.7	98	271	33	19	—	14	3 631	83.4	16.8	729	266	
Custer County	108	2 434	2.8	545	727	46	6	13	27	7 644	77.1	16.0	1 544	489	
Daniels County	18	453	—	46	121	3	—	—	3	1 587	74.4	11.5	266	88	
Dawson County	142	1 905	2.4	484	591	25	19	6	—	6 185	74.5	13.2	1 150	310	
Deer Lodge County	202	1 682	—	407	716	99	7	27	56	7 007	74.5	11.5	1 500	455	
Fallon County	38	652	—	24	158	4	—	—	4	2 013	75.3	10.6	347	91	
Fergus County	243	2 199	3.5	546	656	65	32	5	28	8 199	77.4	14.5	1 445	497	
Flathead County	1 055	11 466	6.3	2 311	3 115	249	115	50	84	38 684	82.1	17.2	8 106	2 000	
Gallatin County	834	7 973	9.9	9 903	3 776	118	49	26	43	29 276	90.4	33.8	5 412	1 160	
Gorham County	14	360	1.9	13	73	3	3	—	—	1 026	72.6	8.8	135	40	
Glacier County	41	2 871	2.3	597	670	118	34	19	65	6 685	72.0	14.5	1 239	318	
Golden Valley County	8	164	9.8	4	47	24	24	—	—	626	72.4	14.7	103	36	
Granite County	48	443	—	38	145	13	5	—	8	1 729	75.9	16.9	370	151	
Hill County	402	3 653	6.8	1 484	1 127	78	20	25	33	10 629	78.4	18.1	2 038	486	
Jefferson County	146	1 657	2.9	484	414	14	—	—	13	5 139	81.3	20.8	1 051	292	
Judith Basin County	28	626	2.1	42	219	5	2	—	—	3 583	80.4	19.8	289	95	
Lake County	357	4 361	2.4	777	1 202	172	71	16	85	13 194	77.3	15.7	2 792	797	
Lewis and Clark County	783	8 893	2.9	2 529	2 683	267	111	43	113	30 351	87.4	27.8	6 406	1 568	
Liberty County	60	457	13.6	37	108	21	4	6	—	1 462	77.2	16.9	207	52	
Lincoln County	356	3 690	6.1	450	955	100	25	24	51	11 218	73.3	12.5	2 583	591	
McCone County	54	483	—	52	135	3	—	—	—	1 484	79.5	14.3	263	89	
Medicine County	88	1 084	—	233	297	15	12	3	—	4 093	85.0	19.7	779	251	
Meagher County	25	329	5.8	18	111	10	8	—	2	1 236	73.9	14.4	279	111	
Mineral County	30	735	2.2	81	150	11	—	7	4	2 197	74.0	13.1	546	175	
Missoula County	1 644	13 458	5.5	10 395	4 816	202	99	40	63	48 247	85.4	27.7	9 568	1 996	
Musselshell County	53	799	6.9	122	252	31	8	23	—	2 826	70.9	11.4	608	220	
Park County	272	2 425	15.1	366	562	59	25	—	34	10 093	81.7	19.3	1 747	479	
Petroleum County	4	90	—	26	52	3	1	—	2	337	81.9	17.5	65	20	
Phillips County	79	1 126	7.0	40	258	19	14	5	—	3 283	74.1	13.1	592	174	
Pondera County	170	1 365	1.5	99	298	14	10	—	4	4 068	73.7	15.0	795	214	
Powder River County	22	381	—	70	120	2	2	—	—	1 378	75.2	15.3	222	70	
Powell County	119	1 144	2.4	237	334	24	12	—	12	4 476	76.5	16.6	1 145	208	
Prairie County	4	272	1.1	23	82	—	—	—	—	994	71.1	13.2	155	65	
Reaville County	442	4 901	6.7	682	1 336	139	68	18	53	16 632	79.1	18.2	3 779	1 137	
Richland County	152	2 342	2.9	273	585	58	20	27	11	6 655	75.4	13.4	990	276	
Roosevelt County	243	2 536	8	300	648	89	18	29	42	6 292	70.1	11.3	1 233	314	
Rosebud County	285	2 665	8.7	353	650	66	12	11	43	5 890	78.3	13.4	1 249	162	
Sanders County	176	1 709	3.6	198	479	48	19	12	17	5 692	75.2	14.8	1 377	397	
Shelburn County	99	881	—	52	213	13	9	—	4	3 291	74.5	11.7	526	189	
Silver Bow County	669	5 587	10.2	2 271	1 941	175	43	24	108	22 423	78.3	17.9	4 706	1 465	
Stillwater County	78	1 278	—	164	329	9	9	—	—	4 341	78.2	16.9	863	276	
Sweet Grass County	57	574	—	43	160	5	—	—	—	2 182	78.9	20.0	398	108	
Teton County	129	1 230	6.3	129	327	64	63	—	1	4 076	76.8	17.8	776	243	
Toole County	70	1 067	6.6	71	242	26	—	13	13	3 289	77.4	14.0	667	192	
Treasure County	14	184	—	19	51	—	—	—	—	569	85.1	13.2	99	25	
Valley County	208	1 568	2.5	113	256	25	15	5	—	5 479	78.6	13.2	1 100	357	
Wheatland County	17	481	8.5	21	112	13	10	3	—	1 492	72.2	10.2	305	108	
Wibaux County	11	244	1.2	22	61	2	2	—	—	799	68.3	10.9	104	40	
Yellowstone County	1 976	20 665	6.0	7 561	6 317	539	230	101	208	72 856	83.7	21.5	14 068	3 416	
Yellowstone National Park	—	13	—	13	—	—	—	—	—	26	100.0	—	—	—	
PLACE AND COUNTY SUBDIVISION															
Anaconda-Deer Lodge County	202	1 682	—	407	716	99	7	27	56	7 007	74.5	11.5	1 500	455	
Billings City	1 422	13 523	6.0	6 211	4 456	409	170	70	169	52 632	84.2	23.5	9 952	2 636	
Butte-Silver Bow (remainder)	664	5 481	10.2	2 237	1 877	171	39	24	108	22 013	78.4	18.1	4 629	1 439	
Great Falls City	960	9 539	5.5	2 616	2 759	274	135	81	58	36 018	82.2	19.3	8 082	2 030	
Harve City	202	885	9.8	1 120	686	50	14	19	17	6 410	81.1	22.3	1 288	278	
Helena City	180	4 019	2.8	1 715	1 437	116	46	10	—	15 912	89.4	34.2	3 084	817	
Kalispell City	294	1 870	9.0	612	580	33	12	10	11	8 063	81.3	17.9	1 503	455	
Missoula City	792	6 347	5.1	7 945	2 869	73	32	5	36	25 996	87.2	33.4	4 655	1 118	
Oakland Homes DP	196	1 620	—	925	548	38	28	—	—	6 547	80.9	22.3	1 205	477	
Butte-Silver Bow	669	5 587	10.2	2 271	1 941	175	43	24	108	22 423	78.3	17.9	4 706	1 465	

Table 21. Disability Status: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	Civilian noninstitutionalized persons 16 to 64 years						Civilian noninstitutionalized persons 65 years and over				Percent in labor force of civilian noninstitutionalized persons 16 to 64 years with—			
	Total	Percent with a work disability		Percent with a mobility or self-care limitation			Total	Percent with a mobility or self-care limitation			A work disability	No work disability	A mobility limitation	No mobility limitation
		Total	Prevented from working	Total	Mobility limitation	Self-care limitation		Total	Mobility limitation	Self-care limitation				
The State.....	484 725	9.7	4.5	2.9	1.6	2.0	99 188	14.7	11.9	7.8	43.7	78.3	21.5	75.8
One Representative at Large.....	484 725	9.7	4.5	2.9	1.6	2.0	99 188	14.7	11.9	7.8	43.7	78.3	21.5	75.8
COUNTY														
Beaverhead County.....	5 156	8.2	3.7	1.1	1.0	2	1 016	12.9	12.3	5.5	41.7	77.5	31.5	75.1
Big Horn County.....	6 602	9.5	4.6	8.6	2.1	7.8	899	19.2	12.5	10.3	43.9	67.8	27.0	66.3
Blaine County.....	3 797	10.0	3.8	2.1	1.3	1.5	838	8.9	8.4	2.9	50.7	76.4	51.0	74.1
Brookwater County.....	1 909	12.9	6.7	3.2	2.5	1.3	518	10.4	9.8	5.2	34.8	79.5	29.2	74.9
Carbon County.....	4 895	10.8	5.3	5.8	1.1	7	1 584	19.3	11.7	12.4	43.1	78.5	20.0	75.3
Carter County.....	877	6.7	1.9	1.4	3	10	263	11.0	10.3	1.9	57.6	85.8	—	84.2
Cascade County.....	44 058	10.9	5.7	3.5	2.0	2.3	9 167	16.3	12.4	8.8	39.8	78.4	17.9	75.4
Chouteau County.....	3 111	6.3	3.0	1.8	1.1	1.3	829	7.8	7.4	3.1	36.5	75.8	30.3	73.7
Custer County.....	6 760	11.1	5.2	4.5	2.9	3.2	1 794	14.3	12.2	7.6	46.9	82.9	29.3	80.4
Daniels County.....	1 263	5.1	2.9	3	2	3	453	6.8	6.8	1.8	40.6	79.2	—	77.5
Dawson County.....	5 710	9.1	4.5	3.3	2.0	2.0	1 334	16.2	10.0	10.6	39.3	79.5	5.1	77.3
Deer Lodge County.....	5 823	12.5	7.0	5.4	2.5	3.7	1 806	19.7	14.9	12.0	32.9	71.3	29.0	67.4
Fallon County.....	1 801	7.0	3.7	2.8	2.1	1.9	435	15.2	14.0	9.2	45.2	77.9	18.9	76.8
Fergus County.....	6 720	10.7	3.6	3.3	1.9	2.8	1 996	15.5	10.8	7.8	51.9	79.0	43.0	76.7
Flathead County.....	36 286	11.6	5.5	2.7	2.0	1.6	7 108	15.7	13.6	7.7	41.9	79.2	23.0	75.9
Gallatin County.....	34 719	7.1	2.4	1.3	9	6	4 287	11.9	10.1	5.9	56.6	75.6	33.3	74.5
Garfield County.....	891	4.2	1.1	2	2	2	256	5.5	5.5	2.0	56.8	81.1	—	80.3
Glacier County.....	6 796	9.0	5.0	2.8	1.5	1.9	1 104	10.3	9.5	5.1	35.6	74.5	8.7	72.0
Golden Valley County.....	523	9.9	2.9	—	—	—	166	11.4	11.4	6.6	55.8	81.3	—	78.8
Granite County.....	1 484	14.5	6.1	2.4	1.6	1.3	454	11.5	10.1	5.5	49.8	69.3	8.3	67.4
Hill County.....	10 637	6.9	2.8	1.9	9	1.5	1 915	16.5	14.0	5.4	47.9	76.8	16.1	75.3
Jefferson County.....	4 794	9.8	4.7	1.5	1.1	9	767	11.0	8.9	6.8	46.8	80.5	18.5	77.9
Judith Basin County.....	1 364	6.0	2.9	2	—	—	406	8.6	7.4	1.7	41.5	75.3	—	73.2
Lake County.....	11 876	11.4	5.6	2.5	2.1	1.4	3 154	13.5	12.2	5.4	41.5	76.4	17.3	73.6
Lewis and Clark County.....	29 795	9.2	3.8	2.3	1.5	1.4	5 140	16.0	13.8	8.4	49.0	83.0	22.6	80.0
Liberty County.....	1 277	4.3	1.8	2	2	4	324	9.3	7.7	3.7	32.7	66.5	—	65.2
Lincoln County.....	10 751	12.7	7.6	2.2	1.8	1.5	2 018	13.8	13.0	7.8	33.0	75.3	7.3	71.0
McCone County.....	1 319	5.6	2.5	9	7	9	707	8.7	7.3	4.1	55.4	77.6	—	77.0
Medison County.....	3 622	8.7	4.2	3.4	1.2	2.7	942	9.8	9.2	5.2	43.8	79.7	19.0	77.2
Meagher County.....	1 094	10.2	4.9	2.5	1.9	7	299	8.7	8.7	4.0	47.3	79.7	14.3	77.6
Mineral County.....	2 002	14.0	7.3	2.2	1.4	1.2	422	11.1	10.2	5.2	41.1	78.5	31.0	73.9
Missoula County.....	52 013	8.6	3.7	2.7	1.3	1.9	7 417	18.4	15.0	9.7	46.4	78.2	21.7	76.2
Musselshell County.....	2 396	14.9	9.7	5.3	3.3	2.5	780	10.4	7.3	6.2	32.4	71.9	9.0	67.9
Park County.....	8 770	10.9	5.8	2.7	1.9	1.8	2 149	14.9	13.4	9.4	39.2	79.7	18.7	76.4
Petroleum County.....	324	6.8	6	—	—	—	71	19.7	19.7	14.1	81.8	78.1	—	78.4
Phillips County.....	2 946	6.5	2.2	1.8	1.1	8	734	12.5	12.3	3.7	60.2	80.2	61.3	79.1
Ponderosa County.....	3 503	5.4	2.1	1.9	1.4	1.5	927	8.2	6.3	5.3	53.4	78.8	—	78.5
Powder River County.....	1 257	5.3	1.9	9	6	6	295	12.9	12.9	2.0	53.0	78.5	37.5	77.4
Powell County.....	3 237	11.8	5.6	2.0	1.8	9	855	12.3	8.0	9.0	46.6	78.9	39.7	75.3
Prairie County.....	755	6.2	3.6	2.4	1.6	1.3	335	12.8	11.0	5.4	38.3	76.7	16.7	75.2
Ravalli County.....	14 765	11.7	5.6	5.8	1.9	4.9	4 003	11.6	8.9	6.9	41.3	74.0	24.9	71.1
Richland County.....	6 255	9.0	3.4	2.5	1.8	2.2	1 310	10.9	7.6	7.3	42.9	78.0	45.6	75.4
Rosebud County.....	6 223	8.7	2.8	2.8	1.2	2.1	665	13.2	10.1	8.1	53.9	77.9	27.0	76.3
Sanders County.....	5 064	13.4	6.9	4.1	3.4	2.1	1 333	15.6	13.1	6.4	36.4	68.0	12.9	65.6
Sherridan County.....	2 593	8.3	3.9	1.8	1.3	1.0	952	12.0	10.4	6.0	47.7	72.5	22.9	71.1
Silver Bow County.....	20 507	12.5	6.9	4.2	2.5	2.5	5 475	18.6	13.6	11.8	34.0	78.9	14.2	74.8
Stillwater County.....	3 810	8.5	3.8	1.4	1.0	1.1	1 013	8.4	7.6	2.4	42.9	79.6	47.5	76.8
Sweet Grass County.....	1 752	12.0	7.2	4.3	3.5	1.9	613	14.5	13.9	7.3	32.4	82.2	18.0	78.4
Teton County.....	3 494	5.9	2.9	1.7	1.1	1.3	1 046	7.0	5.4	4.9	41.7	78.1	33.3	76.5
Toole County.....	2 895	8.4	3.8	1.9	1.5	1.8	774	11.5	9.9	7.5	41.6	80.9	20.9	78.4
Treasure County.....	6 773	6.7	3.6	1.9	1	1.9	1 321	8.9	7.5	4.4	28.6	81.1	—	78.5
Valley County.....	4 855	9.3	4.9	1.2	1.2	4	1 303	8.9	7.5	4.4	34.9	79.3	19.3	75.8
Wheatland County.....	1 228	8.2	5.5	2.1	1.4	1.7	436	12.8	10.1	6.0	28.7	80.1	29.4	76.5
Wibaux County.....	661	5.9	3.0	5	5	5	207	18.4	18.4	5.8	30.8	73.8	—	71.6
Yellowstone County.....	71 323	9.3	4.1	2.7	1.6	1.9	13 202	16.2	12.9	9.0	48.5	81.6	20.1	79.5
Yellowstone National Park.....	39	—	—	—	—	—	—	—	—	—	—	100.0	—	100.0
PLACE AND COUNTY SUBDIVISION														
Anaconda-Deer Lodge County.....	5 623	12.5	7.0	5.4	2.5	3.7	1 806	19.7	14.9	12.0	32.9	71.3	29.0	67.4
Billings city.....	51 089	9.2	4.2	3.0	1.6	2.2	10 283	16.4	12.6	9.8	46.4	82.3	17.7	79.9
Bozeman city.....	16 762	5.6	1.5	1.2	3	9	1 869	12.1	11.0	6.0	60.6	70.7	45.5	70.2
Butte-Silver Bow (remainder).....	20 116	12.6	6.9	4.2	2.5	2.6	5 360	18.6	13.6	11.9	34.1	78.9	14.2	74.8
Great Falls city.....	32 661	11.5	6.2	3.6	2.1	2.3	7 307	17.3	13.0	9.1	38.7	79.2	19.5	75.6
Haute city.....	6 355	7.7	2.9	2.4	1.3	1.7	1 172	18.3	15.7	6.0	48.8	80.1	14.3	81.6
Helena city.....	15 455	8.7	3.6	2.4	1.6	1.5	3 092	17.9	16.1	8.6	46.0	83.8	20.2	81.5
Kalispell city.....	4 818	13.8	6.7	3.3	2.5	1.7	2 115	18.6	16.4	8.7	38.8	84.3	24.9	79.4
Missoula city.....	28 689	8.1	3.2	2.7	1.5	1.9	4 631	19.2	14.6	10.9	46.9	77.9	27.1	76.1
Orchard Homes CDP.....	6 851	9.8	4.1	1.9	1	1.2	1 063	19.8	18.2	9.8	51.6	81.4	18.3	79.1
Butte-Silver Bow.....	20 507	12.5	6.9	4.2	2.5	2.5	5 475	18.6	13.6	11.8	34.0	78.9	14.2	74.8

Table 22. Income and Poverty Status in 1989: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text.]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	Median income in 1989 (dollars)				Persons for whom poverty status is determined										Families with income in 1989 below poverty level				
	Per capita income in 1989 (dollars)	House- holds	Families	Non- family house- holds	Total	Income in 1989 below poverty level										Number	Percent of all families		
						All ages		Related children				Persons 65 years and over							
						Number	Percent	Under 18 years		5 to 17 years		Number		Percent					
The State	11 213	22 988	28 044	12 502	776 793	124 853	16.1	43 237	19.9	29 257	18.4	12 433	12.5	25 691	12.0				
One Representative at Large	11 213	22 988	28 044	12 502	776 793	124 853	16.1	43 237	19.9	29 257	18.4	12 433	12.5	25 691	12.0				
COUNTY																			
Beaverhead County	10 376	20 925	25 413	10 915	8 035	1 495	18.6	505	21.5	345	19.8	249	24.5	315	14.6				
Big Horn County	7 148	19 101	20 876	10 871	11 191	3 949	35.3	1 763	43.1	1 209	41.8	255	28.4	817	30.4				
Blaine County	8 290	18 512	21 347	10 813	6 596	1 825	27.7	779	35.2	524	32.6	180	21.5	397	23.2				
Broadwater County	10 125	20 257	24 180	13 458	3 270	530	16.2	183	19.5	123	17.2	66	12.7	125	13.2				
Carbon County	10 727	19 042	23 200	10 679	7 981	1 337	16.8	419	19.6	298	17.8	272	17.2	314	13.5				
Carter County	10 670	16 458	20 586	8 778	1 482	406	27.4	141	36.9	97	35.0	50	19.0	93	22.7				
Cascade County	12 011	23 700	27 901	12 935	75 516	10 332	13.7	3 594	17.1	2 255	15.3	1 015	11.1	2 118	10.4				
Chouteau County	11 290	22 362	26 470	12 750	5 297	867	16.4	324	21.2	219	19.2	72	8.7	205	13.1				
Custer County	10 310	21 348	26 637	12 151	11 304	1 863	16.5	619	19.7	417	17.4	271	15.1	430	13.9				
Daniels County	9 963	21 433	24 032	13 700	2 217	344	15.5	100	17.2	79	16.5	73	16.1	72	11.4				
Dawson County	10 629	23 414	28 366	12 021	9 327	1 346	14.4	540	20.6	373	18.8	159	11.9	275	10.3				
Deer Lodge County	9 444	20 281	26 701	10 465	9 605	1 788	18.6	466	20.7	327	19.5	261	14.5	375	14.0				
Fallon County	10 308	23 162	26 977	13 795	3 076	336	10.9	94	10.2	61	8.9	56	12.9	71	8.1				
Fergus County	10 995	21 998	25 898	12 320	11 591	1 662	14.3	548	17.1	338	13.8	265	13.3	357	11.0				
Flathead County	11 718	24 781	29 508	12 555	58 261	8 429	14.5	2 977	18.0	2 070	16.8	948	13.3	1 921	11.7				
Gallatin County	12 252	23 345	29 879	13 109	47 535	8 135	17.1	2 096	17.4	1 363	15.8	401	9.4	1 236	9.9				
Garfield County	9 843	17 201	20 820	10 806	1 574	273	17.3	113	23.3	76	20.1	36	14.1	63	14.3				
Glacier County	7 458	18 598	21 488	12 327	11 838	4 224	35.7	1 836	43.0	1 185	39.9	282	25.5	872	30.5				
Golden Valley County	8 505	18 062	19 875	11 875	881	242	27.5	62	29.7	49	30.2	34	20.5	40	17.9				
Granite County	10 049	18 278	22 839	10 565	2 518	548	21.8	202	31.6	155	32.9	63	13.9	123	17.2				
Hill County	11 121	25 467	31 057	12 932	17 116	3 079	18.0	113	22.4	796	21.0	272	14.2	561	12.4				
Jefferson County	13 233	31 400	36 483	13 991	7 658	568	7.4	182	7.9	134	7.7	89	11.6	120	5.6				
Judith Basin County	12 060	22 578	26 056	14 609	2 282	346	15.2	95	16.2	78	17.5	41	10.1	65	9.8				
Lake County	9 274	19 755	23 387	9 994	20 583	4 405	21.4	1 638	27.0	1 063	24.0	447	14.2	956	16.6				
Lawrence and Clark County	12 262	24 409	32 239	15 209	46 162	5 457	11.8	2 019	15.6	1 394	14.5	445	8.7	1 144	9.1				
Liberty County	10 544	24 969	28 073	15 714	2 161	390	18.0	111	18.3	85	18.8	49	15.1	69	11.9				
Lincoln County	9 813	20 898	25 084	12 920	17 315	2 450	14.1	874	17.2	619	15.8	267	13.2	575	11.7				
McCone County	9 347	20 487	23 750	10 500	2 235	416	18.6	142	21.8	117	23.3	48	14.0	109	16.5				
Madison County	10 718	22 066	26 009	11 250	5 907	1 086	18.4	372	25.2	257	22.9	162	17.2	215	13.1				
Meagher County	9 201	18 936	22 550	10 469	1 765	355	20.1	84	19.3	58	18.1	44	14.7	62	13.0				
Mineral County	9 440	20 938	24 347	12 674	3 257	572	17.6	230	25.3	155	21.6	71	16.8	127	14.4				
Missoula County	11 944	23 388	30 359	13 292	75 695	12 864	17.0	3 825	19.1	2 543	17.6	791	10.7	2 052	12.4				
Musselshell County	8 941	16 661	20 733	8 544	4 037	942	23.3	276	27.7	228	28.3	181	23.2	196	17.4				
Park County	11 378	22 658	25 647	12 430	14 224	2 162	15.2	700	19.6	492	19.2	231	10.7	457	12.0				
Petroleum County	9 876	19 219	23 536	12 031	5 919	133	25.6	40	28.4	26	26.5	18	25.4	39	24.2				
Phillips County	10 793	22 245	26 862	11 121	5 046	871	17.3	287	19.1	213	18.8	157	21.4	199	11.5				
Pondera County	9 811	23 523	27 490	12 027	6 195	1 082	17.5	343	18.4	254	18.2	128	13.8	174	11.1				
Powder River County	12 722	22 354	26 995	11 700	2 057	376	18.3	143	25.0	101	24.3	38	12.9	75	12.8				
Powell County	9 978	21 621	24 315	12 145	5 388	913	16.9	408	27.7	259	23.1	63	7.4	193	12.6				
Prairie County	8 497	16 694	20 114	9 271	1 361	208	15.3	41	12.9	38	14.9	62	18.5	45	11.0				
Ravalli County	10 130	21 113	24 522	11 402	24 720	4 022	16.3	1 498	22.5	1 015	20.1	465	11.6	769	11.1				
Richland County	10 091	23 264	26 266	12 813	10 572	1 482	14.0	538	16.1	412	16.5	211	16.1	369	12.5				
Rosebud County	7 751	19 445	21 914	10 907	10 747	2 975	27.7	1 361	36.3	896	34.6	151	13.3	653	11.3				
Rosebud County	10 415	27 192	32 784	16 807	10 333	2 103	20.4	941	25.0	646	23.1	125	18.8	382	14.5				
Sanders County	9 459	18 616	21 320	10 863	8 566	1 680	19.6	579	23.7	449	23.9	300	22.5	337	14.1				
Sheridan County	10 601	20 626	25 246	11 078	4 628	751	16.2	275	21.5	207	21.7	101	10.6	154	11.4				
Silver Bow County	11 364	21 216	26 526	11 371	3 222	4 889	14.7	1 601	19.2	1 070	17.6	531	9.7	1 028	11.1				
Stillwater County	10 975	22 582	29 362	11 589	6 433	682	10.6	208	11.7	159	12.1	148	14.6	154	8.0				
Sweet Grass County	10 558	20 867	25 981	10 064	3 095	323	10.4	97	11.6	54	8.6	69	11.3	48	5.5				
Teton County	10 772	22 072	26 307	12 803	6 035	1 021	16.9	332	20.1	245	19.3	137	13.1	233	13.8				
Toole County	11 375	25 138	29 720	12 408	4 912	732	14.9	245	17.6	150	14.1	89	11.5	131	10.0				
Treasure County	10 244	18 152	23 125	11 324	8 773	138	15.8	51	20.7	31	16.4	17	12.4	40	15.4				
Valley County	10 529	21 781	27 029	12 469	9 479	1 346	16.6	496	22.2	327	19.5	202	12.6	286	13.5				
Wheatland County	8 656	16 946	20 528	8 709	2 142	456	21.3	130	25.0	103	25.9	84	19.3	76	13.5				
Wibaux County	9 338	19 375	24 000	10 833	1 154	210	18.2	58	18.1	38	15.1	48	23.2	48	14.8				
Yellowstone County	12 416	25 942	31 533	14 053	111 140	13 435	12.1	4 493	14.9	2 974	13.6	1 143	8.7	2 799	9.0				
Yellowstone National Park	7 925	31 250	31 250		52														
PLACE AND COUNTY SUBDIVISION																			
Anacosts-Deer Lodge County	9 444	20 281	26 701	10 465	9 605	1 788	18.6	466	20.7	327	19.5	261	14.5	375	14.0				
Billings city	12 834	25 639	31 906	14 160	79 238	9 887	12.5	3 138	15.4	2 009	13.8	896	8.7	2 008	9.2				
Bozeman city	10 172	19 168	26 787	12 557	79 238	9 887	12.5	3 138	15.4	2 009	13.8	896	8.7	2 008	9.2				
Butte-Silver Bow (remainder)	11 385	21 307	23 697	11 173	32 593	4 787	14.7	1 575	19.3	1 046	17.6	512	9.6	1 004	11.3				
Great Falls city	12 603	23 113	28 731	12 813	54 089	7 952	14.7	2 716	19.2	1 693	16.8	777	10.6	1 684	11.2				
Helena city	12 113	25 466	32 493	14 050	9 888	1 330	15.3	430	21.4	385	19.4	118	10.1	289	10.6				
Helena city	13 256	25 462	33 665	14 968	23 350	2 702	11.6	886	15.1	532	12.4	270	8.7	551	8.7				
Kalispell city	11 226	19 950	27 430	11 579	11 559	1 876	16.2	536	18.8	394	19.3	330	15.6	403	12.9				
Missoula city	11 759	21 033	29 894	12 577	40 071	7 624	19.0	1 913	20.2	1 176	17.4	513	11.1	1 017	10.9				
Orchard Park CDP	12 085	27 427	34 084	12 719	7 219	1 171	14.7	571	17.7	412	17.6	147	10.2	400	12.7				
Butte-Silver Bow	11 364	21 216	26 526	11 371	3 222	4 889	14.7	1 601	19.2	1 070	17.6	531	9.7	1 028	11.1				

Table 23. Selected Social and Economic Characteristics for American Indian and Alaska Native Areas: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

Congressional District American Indian Area		Persons 3 years and over— Enrolled in ele- mentary or high school	American Indian, Eskimo, or Aleut											Persons for whom poverty status is deter- mined			
			Persons 16 to 19 years			Persons 25 years and over			Persons 16 years and over			Per capita income in 1989 (\$dollars)	Persons for whom poverty status is deter- mined				
			Total	Not enrolled in school and not high school graduate		Total	Percent high school graduate or higher	Percent with bache- lor's degree or higher	Total	Civilian labor force			Total	Percent with income in 1989 below poverty level	Persons 5 to 17 years		
				Total	Not in labor force					Total	Percent unem- ployed				Total	Percent with income in 1989 below poverty level	
All persons		Total	Total	Not in labor force	Total	Percent higher	Percent with bache- lor's degree or higher	Total	Total	Percent unem- ployed	Per capita income in 1989 (\$dollars)	Total	Percent with income in 1989 below poverty level	Total	Percent with income in 1989 below poverty level		
One Representative at Large -----		799 065	12 832	3 556	763	426	22 684	68.1	7.9	29 874	17 184	26.2	5 422	46 377	46.1	13 366	50.7
AMERICAN INDIAN RESERVATION AND TRUST LAND																	
All areas -----		54 934	8 581	2 234	412	259	13 904	66.6	6.1	18 329	10 405	30.1	4 876	29 961	47.3	9 086	51.8
Blackfeet Reservation, MT -----		8 488	2 031	431	80	60	3 294	66.3	6.6	4 162	2 340	31.1	4 718	6 950	50.1	2 192	52.0
Crow Reservation and Trust Lands, MT -----		6 341	1 414	357	63	38	2 181	69.8	6.6	2 836	1 546	44.0	4 243	4 670	50.0	1 498	53.5
Flathead Reservation, MT -----		21 061	1 343	434	109	64	2 514	73.3	5.5	3 331	1 979	17.0	6 428	5 017	38.5	1 395	39.6
Fort Belknap Reservation and Trust Lands, MT -----		2 485	658	167	13	8	1 037	66.6	6.0	1 344	721	29.5	4 536	2 297	46.9	739	52.2
Fort Peck Reservation, MT -----		10 722	1 503	400	71	30	2 629	61.4	5.9	3 484	2 003	29.7	4 778	5 654	46.6	1 544	55.2
Northern Cheyenne Reservation and Trust Lands, MT-SD (pt.) -----		3 906	1 071	311	54	43	1 450	61.6	5.6	2 085	1 218	31.4	4 479	3 517	51.5	1 136	57.6
Rocky Boy's Reservation and Trust Lands, MT -----		1 931	561	134	22	16	799	64.3	6.1	1 087	598	32.8	4 278	1 856	48.9	582	55.7
Crow/Northern Cheyenne Area, MT -----		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 24. Structural Characteristics of Housing Units: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District	The State	One Representative of Large
UNITS IN STRUCTURE		
Owner-occupied housing units.....	205 938	205 938
1. detached.....	164 198	164 198
1. attached.....	2 287	2 287
2.....	2 107	2 107
3 or 4.....	992	992
5 to 9.....	428	428
10 to 19.....	223	223
20 to 49.....	158	158
50 or more.....	7	7
Mobile home or trailer.....	34 543	34 543
Other.....	995	995
Renter-occupied housing units.....	100 225	100 225
1. detached.....	40 011	40 011
1. attached.....	3 441	3 441
2.....	9 899	9 899
3 or 4.....	12 388	12 388
5 to 9.....	8 484	8 484
10 to 19.....	6 822	6 822
20 to 49.....	4 774	4 774
50 or more.....	2 745	2 745
Mobile home or trailer.....	10 111	10 111
Other.....	1 550	1 550
YEAR STRUCTURE BUILT		
All housing units.....	361 155	361 155
1989 to March 1990.....	3 818	3 818
1985 to 1988.....	19 632	19 632
1980 to 1984.....	39 734	39 734
1970 to 1979.....	95 926	95 926
1960 to 1969.....	48 031	48 031
1950 to 1959.....	45 209	45 209
1940 to 1949.....	29 944	29 944
1939 or earlier.....	78 861	78 861
Median.....	1966	1966
BEDROOMS		
All housing units.....	361 155	361 155
No bedroom.....	8 785	8 785
1 bedroom.....	45 067	45 067
2 bedrooms.....	113 209	113 209
3 bedrooms.....	125 581	125 581
4 bedrooms.....	51 532	51 532
5 or more bedrooms.....	16 981	16 981
Owner-occupied housing units.....	205 938	205 938
No bedroom.....	587	587
1 bedroom.....	8 273	8 273
2 bedrooms.....	53 179	53 179
3 bedrooms.....	88 573	88 573
4 bedrooms.....	41 587	41 587
5 or more bedrooms.....	13 739	13 739
Renter-occupied housing units.....	100 225	100 225
No bedroom.....	4 409	4 409
1 bedroom.....	24 683	24 683
2 bedrooms.....	40 458	40 458
3 bedrooms.....	22 281	22 281
4 bedrooms.....	6 334	6 334
5 or more bedrooms.....	2 060	2 060

Table 25. Equipment and Fuels: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District	One Representative of The State Large	
	The State	Large
PLUMBING FACILITIES		
All housing units.....	361 155	361 155
Complete plumbing facilities.....	354 144	354 144
Lacking complete plumbing facilities.....	7 011	7 011
Owner-occupied housing units.....	205 938	205 938
Complete plumbing facilities.....	204 532	204 532
Lacking complete plumbing facilities.....	1 406	1 406
Renter-occupied housing units.....	100 225	100 225
Complete plumbing facilities.....	99 274	99 274
Lacking complete plumbing facilities.....	951	951
SOURCE OF WATER		
All housing units.....	361 155	361 155
Public system or private company.....	236 532	236 532
Individual drilled well.....	100 222	100 222
Individual dug well.....	9 051	9 051
Some other source.....	15 350	15 350
SEWAGE DISPOSAL		
All housing units.....	361 155	361 155
Public sewer.....	218 372	218 372
Septic tank or cesspool.....	135 371	135 371
Other means.....	7 412	7 412
KITCHEN FACILITIES		
All housing units.....	361 155	361 155
Complete kitchen facilities.....	354 638	354 638
Lacking complete kitchen facilities.....	6 517	6 517
HOUSE HEATING FUEL		
Occupied housing units.....	306 163	306 163
Utility gas.....	166 067	166 067
Bottled, tank, or LP gas.....	22 986	22 986
Electricity.....	54 856	54 856
Fuel oil, kerosene, etc.....	12 649	12 649
Coal or coke.....	2 399	2 399
Wood.....	44 966	44 966
Solar energy.....	185	185
Other fuel.....	1 662	1 662
No fuel used.....	393	393
TELEPHONE IN UNIT		
Occupied housing units.....	306 163	306 163
Telephone in unit.....	285 040	285 040
No telephone in unit.....	21 123	21 123
VEHICLES AVAILABLE		
Owner-occupied housing units.....	205 938	205 938
None.....	6 466	6 466
1.....	44 883	44 883
2.....	88 458	88 458
3 or more.....	66 131	66 131
Vehicles per household.....	2.2	2.2
Renter-occupied housing units.....	100 225	100 225
None.....	13 967	13 967
1.....	46 463	46 463
2.....	28 828	28 828
3 or more.....	10 967	10 967
Vehicles per household.....	1.4	1.4
PLUMBING FACILITIES BY PERSONS PER ROOM		
Owner-occupied housing units.....	205 938	205 938
Lacking complete plumbing facilities.....	1 406	1 406
1.00 or less.....	1 256	1 256
1.01 or more.....	150	150
Renter-occupied housing units.....	100 225	100 225
Lacking complete plumbing facilities.....	951	951
1.00 or less.....	899	899
1.01 or more.....	52	52
HOUSEHOLDER 65 YEARS AND OVER		
Occupied housing units.....	71 864	71 864
Owner-occupied housing units.....	55 731	55 731
Lacking complete plumbing facilities.....	624	624
No telephone in unit.....	2 498	2 498
No vehicle available.....	10 942	10 942

Table 26. Occupancy, Utilization, and Financial Characteristics of Housing Units: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District	One Representative of Large	
	The State	
Occupied housing units	306 163	306 163
PERSONS IN UNIT		
Owner-occupied housing units	205 938	205 938
1 person	41 432	41 432
2 persons	76 528	76 528
3 persons	32 436	32 436
4 persons	33 426	33 426
5 persons	15 144	15 144
6 persons	4 656	4 656
7 or more persons	2 316	2 316
Median	2 30	2 30
Renter-occupied housing units	100 225	100 225
1 person	39 146	39 146
2 persons	27 208	27 208
3 persons	14 359	14 359
4 persons	11 033	11 033
5 persons	5 389	5 389
6 persons	2 065	2 065
7 or more persons	1 025	1 025
Median	1 90	1 90
YEAR HOUSEHOLDER MOVED INTO UNIT		
Owner-occupied housing units	205 938	205 938
1989 to March 1990	20 847	20 847
1985 to 1988	47 977	47 977
1980 to 1984	36 828	36 828
1970 to 1979	51 760	51 760
1960 to 1969	21 845	21 845
1959 or earlier	26 681	26 681
Renter-occupied housing units	100 225	100 225
1989 to March 1990	48 715	48 715
1985 to 1988	33 653	33 653
1980 to 1984	9 137	9 137
1970 to 1979	5 863	5 863
1960 to 1969	1 358	1 358
1959 or earlier	1 499	1 499
AGE OF HOUSEHOLDER		
Owner-occupied housing units	205 938	205 938
Under 25 years	2 699	2 699
25 to 34 years	29 487	29 487
35 to 44 years	49 442	49 442
45 to 54 years	36 698	36 698
55 to 64 years	31 881	31 881
65 to 74 years	33 103	33 103
75 years and over	22 628	22 628
Renter-occupied housing units	100 225	100 225
Under 25 years	14 557	14 557
25 to 34 years	31 255	31 255
35 to 44 years	21 462	21 462
45 to 54 years	9 854	9 854
55 to 64 years	6 964	6 964
65 to 74 years	7 088	7 088
75 years and over	9 045	9 045
CONDOMINIUM HOUSING UNITS		
Condominium housing units	6 123	6 123
Owner-occupied condominium housing units	1 715	1 715
Renter-occupied condominium housing units	1 816	1 816
Vacant condominium housing units	2 592	2 592
MEAN HOUSEHOLD INCOME IN 1989		
Owner-occupied housing units (dollars)	33 418	33 418
Renter-occupied housing units (dollars)	18 541	18 541
GROSS RENT		
Specified renter-occupied housing units	93 906	93 906
Less than \$100	2 862	2 862
\$100 to \$199	13 216	13 216
\$200 to \$299	24 409	24 409
\$300 to \$399	24 786	24 786
\$400 to \$499	12 932	12 932
\$500 to \$599	5 457	5 457
\$600 to \$749	2 139	2 139
\$750 to \$999	585	585
\$1,000 or more	277	277
No cash rent	7 243	7 243
Median (dollars)	311	311
Mean (dollars)	322	322

Table 27. Homeowner and Rental Financial Characteristics: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District	The State	One Representative of Large
MORTGAGE STATUS AND SELECTED MONTHLY OWNER COSTS		
Specified owner-occupied housing units.....	133 194	133 194
With a mortgage.....	78 899	78 899
Less than \$200.....	1 163	1 163
\$200 to \$299.....	4 785	4 785
\$300 to \$399.....	10 375	10 375
\$400 to \$499.....	13 091	13 091
\$500 to \$599.....	13 341	13 341
\$600 to \$799.....	20 963	20 963
\$800 to \$999.....	9 698	9 698
\$1,000 to \$1,499.....	4 406	4 406
\$1,500 to \$1,999.....	845	845
\$2,000 or more.....	232	232
Median (dollars).....	575	575
Mean (dollars).....	614	614
Not mortgaged.....	54 295	54 295
Less than \$100.....	3 728	3 728
\$100 to \$199.....	32 109	32 109
\$200 to \$299.....	14 898	14 898
\$300 to \$399.....	2 472	2 472
\$400 or more.....	1 088	1 088
Median (dollars).....	175	175
Mean (dollars).....	185	185
HOUSEHOLD INCOME IN 1989 BY SELECTED MONTHLY OWNER COSTS AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1989		
Specified owner-occupied housing units.....	133 194	133 194
Less than \$20,000.....	41 073	41 073
Less than 20 percent.....	16 925	16 925
20 to 24 percent.....	4 990	4 990
25 to 29 percent.....	3 719	3 719
30 to 34 percent.....	2 856	2 856
35 percent or more.....	11 630	11 630
Not computed.....	953	953
Median.....	23.1	23.1
\$20,000 to \$34,999.....	38 946	38 946
Less than 20 percent.....	22 432	22 432
20 to 24 percent.....	6 291	6 291
25 to 29 percent.....	4 678	4 678
30 to 34 percent.....	2 744	2 744
35 percent or more.....	2 791	2 791
Not computed.....	10	10
Median.....	17.4	17.4
\$35,000 to \$49,999.....	27 846	27 846
Less than 20 percent.....	19 783	19 783
20 to 24 percent.....	5 241	5 241
25 to 29 percent.....	1 923	1 923
30 to 34 percent.....	581	581
35 percent or more.....	318	318
Not computed.....	-	-
Median.....	14.1	14.1
\$50,000 or more.....	25 329	25 329
Less than 20 percent.....	22 609	22 609
20 to 24 percent.....	1 862	1 862
25 to 29 percent.....	604	604
30 to 34 percent.....	132	132
35 percent or more.....	93	93
Not computed.....	29	29
Median.....	11.2	11.2
HOUSEHOLD INCOME IN 1989 BY GROSS RENT AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1989		
Specified renter-occupied housing units.....	93 906	93 906
Less than \$10,000.....	33 495	33 495
Less than 20 percent.....	1 761	1 761
20 to 24 percent.....	1 863	1 863
25 to 29 percent.....	2 591	2 591
30 to 34 percent.....	2 447	2 447
35 percent or more.....	21 300	21 300
Not computed.....	3 533	3 533
Median.....	35.0+	35.0+
\$10,000 to \$19,999.....	28 090	28 090
Less than 20 percent.....	5 982	5 982
20 to 24 percent.....	5 594	5 594
25 to 29 percent.....	5 075	5 075
30 to 34 percent.....	3 867	3 867
35 percent or more.....	5 238	5 238
Not computed.....	2 334	2 334
Median.....	26.3	26.3
\$20,000 to \$34,999.....	21 423	21 423
Less than 20 percent.....	13 660	13 660
20 to 24 percent.....	4 104	4 104
25 to 29 percent.....	1 494	1 494
30 to 34 percent.....	389	389
35 percent or more.....	272	272
Not computed.....	1 504	1 504
Median.....	14.6	14.6
\$35,000 or more.....	10 898	10 898
Less than 20 percent.....	9 649	9 649
20 to 24 percent.....	329	329
25 to 29 percent.....	62	62
30 to 34 percent.....	24	24
35 percent or more.....	40	40
Not computed.....	794	794
Median.....	10.5	10.5

Table 28. **Selected Housing Characteristics by Race and Hispanic Origin of Householder: 1990**

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District	Montana					One Representative at Large				
	Race of Householder				Hispanic origin (of any race)	Race of Householder				Hispanic origin (of any race)
	White	Black	American Indian, Eskimo, or Aleut	Asian or Pacific Islander		White	Black	American Indian, Eskimo, or Aleut	Asian or Pacific Islander	
TENURE										
Occupied housing units	289 806	670	13 396	1 064	3 275	289 806	670	13 396	1 064	3 275
Owner-occupied housing units	198 177	245	6 501	492	1 528	198 177	245	6 501	492	1 528
Renter-occupied housing units	91 629	425	6 895	572	1 747	91 629	425	6 895	572	1 747
MORTGAGE STATUS AND SELECTED MONTHLY OWNER COSTS										
Specified owner-occupied housing units	128 468	177	3 818	371	1 023	128 468	177	3 818	371	1 023
With a mortgage	76 006	134	2 213	300	620	76 006	134	2 213	300	620
Less than \$300	4 991	—	931	8	62	4 991	—	931	8	62
\$300 to \$499	22 604	56	606	78	236	22 604	56	606	78	236
\$500 to \$699	24 527	42	439	84	145	24 527	42	439	84	145
\$700 to \$999	18 516	24	194	84	147	18 516	24	194	84	147
\$1,000 to \$1,499	4 316	12	25	39	30	4 316	12	25	39	30
\$1,500 or more	1 052	—	18	7	—	1 052	—	18	7	—
Not mortgaged	52 462	43	1 605	71	403	52 462	43	1 605	71	403
Less than \$100	3 463	—	265	—	37	3 463	—	265	—	37
\$100 to \$199	30 922	38	1 028	40	273	30 922	38	1 028	40	273
\$200 to \$299	14 615	5	214	31	93	14 615	5	214	31	93
\$300 to \$399	2 412	—	60	—	—	2 412	—	60	—	—
\$400 or more	1 050	—	38	—	—	1 050	—	38	—	—
GROSS RENT										
Specified renter-occupied housing units	85 382	425	6 651	566	1 688	85 382	425	6 651	566	1 688
Less than \$200	13 708	65	2 059	102	388	13 708	65	2 059	102	388
\$200 to \$299	22 042	104	1 872	216	430	22 042	104	1 872	216	430
\$300 to \$499	35 251	216	1 837	177	600	35 251	216	1 837	177	600
\$500 to \$749	7 197	16	288	22	173	7 197	16	288	22	173
\$750 to \$999	569	6	4	—	14	569	6	4	—	14
\$1,000 or more	277	—	—	—	—	277	—	—	—	—
No cash rent	6 538	18	591	49	83	6 538	18	591	49	83
Median (dollars)	321	332	252	272	296	321	332	252	272	296
SELECTED CHARACTERISTICS										
Occupied housing units	289 806	670	13 396	1 064	3 275	289 806	670	13 396	1 064	3 275
Lacking complete plumbing facilities	2 147	15	181	14	28	2 147	15	181	14	28
No vehicle available	18 141	110	1 931	104	423	18 141	110	1 931	104	423

Table 29. Structural, Plumbing, and Equipment Characteristics: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text.]

State Congressional District County Place and (In Selected States) County Subdivision [10,000 or More Persons]	Percent									
	Year structure built			Bedrooms						
	All housing units	1980 to March 1990	1939 or earlier	None or 1	4 or more	Condominium	Lacking complete plumbing facilities	With public water system or private company	With public sewer	Lacking complete kitchen facilities
The State	361 155	17.5	21.8	14.9	19.0	1.7	1.9	65.5	60.5	1.8
One Representative at Large	361 155	17.5	21.8	14.9	19.0	1.7	1.9	65.5	60.5	1.8
COUNTY										
Beaverhead County	4 128	16.4	28.9	20.1	18.0	—	5.1	51.4	45.6	5.5
Big Horn County	4 304	21.0	18.0	12.3	15.3	—	2.8	55.3	55.8	1.7
Blaine County	2 930	17.3	29.8	12.5	20.7	—	2.2	60.3	58.4	1.9
Broadwater County	1 593	21.7	21.5	17.0	18.2	—	5.3	47.6	45.9	3.5
Carbon County	4 828	18.9	39.5	14.2	15.8	—	9	49.9	50.8	3.2
Carter County	816	7.8	30.6	14.5	19.9	—	38.1	35.0	6.3	—
Cascade County	33 063	9.3	19.3	15.3	20.4	1.6	1.5	85.4	82.4	1.1
Chouteau County	2 668	12.0	31.9	11.2	22.6	—	2.2	72.6	51.0	2.8
Custer County	5 405	7.9	28.3	15.8	19.6	1.0	1.3	77.3	80.2	1.9
Daniels County	1 220	10.6	45.6	10.0	23.6	—	3.0	57.6	57.5	3.3
Dawson County	4 487	10.9	25.5	9.8	23.8	—	1.1	66.9	73.0	2.0
Deer Lodge County	4 830	2.2	51.7	20.7	13.8	—	2.1	72.0	70.5	1.8
Fallon County	1 523	9.8	38.6	11.5	22.4	—	1.1	73.8	70.2	2.6
Fergus County	5 732	10.2	39.6	13.1	17.6	—	6	65.0	59.9	1.4
Flathead County	26 799	26.2	12.6	14.3	16.2	2.1	1.6	54.7	39.6	1.2
Gallatin County	21 350	26.4	17.5	14.9	19.4	1.0	5.1	62.4	62.4	1.0
Garfield County	924	13.4	28.8	15.3	15.9	—	3.9	26.8	29.7	3.6
Glacier County	4 797	23.3	18.7	17.6	18.8	—	3.2	75.2	70.0	1.9
Golden Valley County	432	13.2	45.8	5.3	22.2	—	3.5	25.5	47.9	—
Granite County	1 924	19.0	32.6	27.1	14.2	—	7.1	52.2	37.3	4.5
Hill County	7 345	12.4	21.6	15.4	22.9	—	2	73.9	75.8	2.5
Jefferson County	3 302	25.1	24.4	12.9	18.0	—	3.4	46.1	36.2	3.1
Judith Basin County	1 346	12.6	47.2	16.7	18.9	—	12.6	22.4	31.9	12.3
Lake County	10 972	22.7	14.2	15.7	19.1	—	4	39.6	29.7	2.1
Lewis and Clark County	21 412	17.4	22.1	14.6	21.3	1.0	1.1	60.8	63.0	1.0
Liberty County	1 007	12.3	31.5	10.6	24.6	—	5.0	65.7	56.4	4.8
Lincoln County	8 002	21.8	14.7	15.4	14.0	1.0	4.0	24.2	24.3	3.9
McCone County	1 161	8.4	24.9	7.6	26.5	—	3.1	35.0	33.9	5.6
Madison County	3 902	23.3	24.8	20.9	13.3	9.5	3.3	37.9	38.7	2.3
Meagher County	1 239	13.0	34.5	27.2	14.1	—	16.8	46.1	38.0	14.5
Mineral County	1 635	17.7	16.0	22.9	12.2	—	7.8	33.1	31.9	6.5
Missoula County	33 466	16.5	15.4	17.4	18.0	—	9	69.7	54.0	7.7
Musselshell County	2 183	17.2	34.4	14.6	14.6	—	3.7	55.3	51.6	3.3
Park County	6 926	15.1	31.4	16.7	17.0	—	2.5	59.0	52.0	2.0
Petroleum County	293	12.6	35.8	10.9	11.9	—	9.9	34.5	32.4	7.8
Phillips County	2 765	17.1	35.4	18.4	19.3	—	8.0	58.3	53.9	7.6
Pondera County	2 618	9.3	30.4	10.3	22.7	1.3	1.8	75.6	65.1	7
Powder River County	1 096	18.0	23.3	10.9	16.5	—	7.2	28.3	28.2	7.8
Powell County	2 835	11.0	31.9	14.9	14.6	—	1.9	59.5	58.1	1.8
Prairie County	749	8.0	39.8	10.1	22.4	—	2.7	12.1	61.9	2.3
Ravalli County	11 099	23.9	20.9	14.1	13.7	—	2.9	23.6	24.5	2.8
Richland County	4 825	18.5	20.3	8.5	23.8	—	1.8	56.6	61.5	2.9
Roosevelt County	4 265	20.6	24.0	10.2	22.6	—	9	75.3	74.4	1.8
Rosebud County	4 251	31.5	13.4	8.2	14.4	—	13.3	69.7	70.1	1.4
Sanders County	4 335	22.9	20.1	18.8	13.0	—	4.4	44.4	26.5	4.8
Sheridan County	2 417	15.0	35.6	10.6	23.1	—	4	63.7	63.7	1.1
Silver Bow County	15 474	5.1	47.2	19.2	15.8	—	9	92.3	93.8	7
Stillwater County	3 291	22.3	26.5	16.0	15.9	1.2	3.5	38.9	43.1	3.0
Sweet Grass County	1 639	13.5	37.0	17.3	21.0	—	4	32	48.9	47.2
Teton County	2 725	11.5	31.3	14.1	20.5	—	2.6	49.3	52.0	3.4
Toole County	2 354	9.2	28.8	15.5	17.8	—	2.2	3.1	86.9	71.5
Treasure County	448	14.1	32.4	10.3	13.2	—	3.6	47.3	43.3	3.3
Valley County	5 304	9.2	21.2	11.8	19.7	—	22.7	2.9	71.2	70.3
Wheatland County	1 129	8.1	52.1	15.1	22.1	—	1.2	61.9	60.3	1.8
Willburt County	563	17.6	37.1	9.1	20.2	—	4	55.1	55.1	2
Yellowstone County	48 781	21.0	11.0	12.6	22.9	—	2.7	5	87.0	79.2
Yellowstone National Park	46	10.9	13.0	13.0	—	—	—	—	—	—
PLACE AND COUNTY SUBDIVISION										
Anacondo-Deer Lodge County	4 830	2.2	51.7	20.7	13.8	—	2.1	72.0	70.5	1.8
Billings city	35 964	19.6	10.8	14.5	23.2	—	3.2	99.1	96.6	7
Bozeman city	9 117	19.1	22.8	19.7	17.3	—	2	96.2	96.8	1
Butte-Silver Bow (remainder)	15 174	2	46.4	15.9	23.9	—	9.5	91.5	92.2	7
Great Falls city	24 157	7.2	20.1	17.6	21.7	—	2.1	99.3	99.0	5
Harve city	4 335	8.6	20.6	19.4	23.1	—	3	99.3	99.3	5
Helena city	10 946	11.4	31.3	19.6	22.3	—	1.9	2	98.5	98.9
Kalispell city	5 537	14.0	25.6	16.9	16.9	—	1.9	7	98.6	94.5
Missoula city	18 488	11.1	22.2	17.0	17.0	—	1.4	9	96.8	84.5
Orchard Homes CDP	4 339	12.9	7.3	10.9	18.5	—	3	47.4	23.3	1
Butte-Silver Bow	15 474	5.1	47.2	19.2	15.8	—	9	91.6	92.3	7

Table 30. Fuels and Equipment Characteristics: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	All occupied housing units	Percent with—						Vehicles available				No telephone in unit
		House heating fuel										
		Utility gas	Bottled, tank, or LP gas	Electricity	Fuel oil, kero- sene, etc.	Other or none		None	1	2 or more		
The State	306 163	54.2	7.5	17.9	4.1	16.2		6.7	29.8	63.5	6.9	
One Representative at Large	306 163	54.2	7.5	17.9	4.1	16.2		6.7	29.8	63.5	6.9	
COUNTY												
Beaverhead County	3 211	34.9	6.8	23.3	3.5	31.5	7.7	27.9	64.4	10.3		
Big Horn County	3 448	39.7	21.4	1.6	13.6	34.0	7.1	36.0	56.8	30.8		
Blaine County	2 379	54.4	19.4	14.8	2.6	8.8	10.4	32.1	57.5	17.8		
Broadwater County	1 280	—	25.0	26.0	11.8	37.2	3.8	22.5	73.8	12.7		
Carbon County	3 289	56.0	8.4	12.2	2.0	21.2	6.6	27.6	67.1	6.9		
Carter County	3 589	8	70.5	5.6	2.4	20.7	11.2	21.2	72.2	5.8		
Cascade County	30 133	78.4	3.6	10.5	2.3	5.3	8.5	31.5	50.0	5.6		
Chouteau County	2 064	35.9	17.8	16.9	20.4	8.9	3.7	24.5	61.8	6.9		
Custer County	4 631	76.1	9.3	6.1	7.2	8.3	7.4	32.6	59.9	8.4		
Daniels County	5 919	.5	40.9	12.9	42.2	3.4	5.1	22.2	72.7	3.7		
Dawson County	3 691	77.4	11.6	4.4	2.0	4.7	5.9	25.9	68.2	4.6		
Deer Lodge County	4 060	74.9	1.0	7.9	—	15.8	10.5	29.8	59.7	8.6		
Fallon County	1 166	59.1	29.9	4.1	1.9	5.0	5.6	23.7	70.8	3.7		
Fergus County	4 603	49.1	10.2	17.7	8.5	14.5	7.2	25.1	67.8	6.0		
Flathead County	22 834	37.5	3.3	26.1	3.5	29.6	5.5	26.7	67.6	5.8		
Gallatin County	19 015	45.1	5.1	29.0	2.9	18.0	3.7	30.8	65.5	4.5		
Garfield County	5 777	3	63.3	11.3	5.7	19.4	6.9	27.7	65.3	2.1		
Glacier County	3 816	56.6	3.4	26.8	—	12.8	9.7	37.3	53.0	18.0		
Golden Valley County	330	6	31.5	18.8	25.5	23.6	6	29.1	70.3	4.8		
Granite County	1 051	34.4	5.6	12.9	6.1	40.9	5.9	28.5	65.6	11.4		
Hill County	6 426	73.6	6.3	13.9	3.1	3.1	7.1	28.2	64.6	6.8		
Jefferson County	2 867	38.4	8.2	14.7	5.5	33.3	4.1	18.8	77.0	7.9		
Judith Basin County	908	—	22.4	25.3	25.9	26.4	5.1	22.4	72.6	5.9		
Lake County	7 814	—	9.5	34.5	21.2	34.7	6.5	28.9	64.6	10.6		
Lewis and Clark County	18 649	61.3	3.4	28.4	2.4	14.5	6.3	30.6	63.1	4.9		
Liberty County	788	58.4	12.3	16.5	10.5	2.3	7.7	25.5	66.8	5.6		
Lincoln County	6 668	—	9.5	23.8	10.4	56.3	4.8	27.9	67.3	8.1		
McCone County	844	2.4	38.5	19.4	8.6	8.1	4.1	24.1	71.8	4.1		
Madison County	2 387	13.6	11.2	20.4	13.8	41.0	4.5	22.9	72.6	6.7		
Meagher County	709	—	35.8	12.4	8.9	42.9	5.2	25.0	69.8	13.1		
Mineral County	1 282	1.2	11.9	15.8	20.7	50.5	6.6	28.6	64.7	15.3		
Missoula County	30 782	62.1	3.1	19.3	2.2	13.3	7.0	33.6	59.4	5.3		
Musselshell County	1 661	—	19.5	15.5	15.8	49.1	6.3	25.8	67.9	10.1		
Park County	5 619	45.4	—	17.0	2.7	23.8	8.8	30.7	60.5	7.5		
Petroleum County	209	—	29.2	23.0	22.5	25.4	4.8	27.8	67.5	6.7		
Phillips County	1 931	57.6	17.3	13.5	3.6	7.9	7.4	30.0	62.7	9.8		
Pondera County	2 246	56.8	11.8	12.8	6.8	11.9	4.7	25.2	70.1	5.0		
Powder River County	805	5	58.8	16.0	1.1	23.6	3.2	24.6	72.2	4.6		
Powell County	2 234	56.0	4.1	9.2	3.0	27.7	6.5	28.9	64.6	7.6		
Prairie County	568	43.7	34.2	7.0	7.0	8.1	3.7	32.0	64.3	5.8		
Ravalli County	9 698	31.6	6.3	16.6	2.3	43.1	3.8	26.9	69.3	7.3		
Richland County	3 956	63.0	18.2	11.7	1.5	5.5	4.9	27.6	67.4	5.5		
Rosevelt County	3 694	58.3	23.6	11.2	4.7	2.2	9.7	35.5	54.8	17.3		
Rosebud County	3 479	23.0	1.5	27.6	—	15.1	5.4	26.9	67.7	18.5		
Sanders County	3 397	1	10.2	20.2	13.1	56.4	6.4	25.5	68.1	11.5		
Sherriden County	1 899	39	46.5	13.4	33.4	2.9	5.6	28.0	66.5	3.6		
Silver Bow County	13 899	83.0	1.6	8.7	9	5.8	11.3	32.5	56.2	6.1		
Stillwater County	2 523	47.9	15.1	15.9	2.0	19.1	4.8	22.4	72.8	6.4		
Sweet Grass County	1 281	47.0	11.0	13.8	3.1	25.1	4.5	27.9	67.6	5.9		
Teton County	2 329	39.6	15.1	22.0	13.6	9.7	4.0	26.5	69.6	4.6		
Toole County	1 922	46.1	6.3	40.3	4.0	3.3	6.2	35.0	58.8	4.8		
Treasure County	339	—	26.3	42.2	4.1	27.4	5.0	28.0	67.0	8.8		
Valley County	3 268	61.8	8.3	19.2	4.8	5.9	7.3	26.7	66.0	6.9		
Wheatland County	849	52.3	8.8	13.1	6.6	19.2	5.3	30.5	64.2	12.2		
Wibaux County	454	48.2	36.1	7.0	1.8	6.8	7.7	21.1	71.1	11.5		
Yellowstone County	44 689	76.0	2.7	15.7	.9	4.7	6.8	31.0	62.2	4.7		
Yellowstone National Park	24	—	100.0	—	—	—	—	—	—	100.0		
PLACE AND COUNTY SUBDIVISION												
Anacosta-Deer Lodge County	4 060	74.9	1.0	7.9	—	15.8	10.5	29.8	59.7	8.6		
Billings city	33 181	83.4	—	13.9	—	1.9	7.9	34.6	57.5	4.6		
Bozeman city	8 751	60.1	1.0	32.0	—	7	6.2	40.1	47.3	4.3		
Butte-Silver Bow (remainder)	13 640	82.9	1.6	8.8	—	.9	5.7	11.3	32.6	56.2		
Great Falls city	22 639	88.0	—	8	—	2.2	10.1	33.7	56.2	6.0		
Haute city	4 018	84.3	—	14.2	—	1.0	7.9	31.4	60.7	5.7		
Helena city	10 316	76.5	6	17.6	—	.1	5.2	10.0	37.9	52.0		
Kalispell city	5 237	61.8	1.4	26.8	2.7	7.3	12.3	39.5	48.2	5.5		
Missoula city	17 677	73.3	1.1	20.1	—	.8	10.0	41.2	50.1	4.1		
Orchard Homes CDP	4 169	76.3	.9	15.3	—	3	7.2	4.2	32.1	63.7		
Butte-Silver Bow	13 899	83.0	1.6	8.7	.9	5.8	11.3	32.5	56.2	6.1		

Table 31. Homeowner and Renter Characteristics: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text.]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	All owner-occupied housing units			Specified owner-occupied housing units						All renter-occupied housing units				
	Total	Percent with house- holder moved into unit—		Total	With a mortgage		Not mortgaged		Total	Percent with house- holder moved into unit—		Total	Specified renter paying cash rent	
		1989 to March 1990	1969 or earlier		Median selected monthly owner costs as a percentage of house- hold owner costs (dollars)	Median selected monthly owner costs as a percentage of house- hold income in 1989	Median selected monthly owner costs as a percentage of house- hold income in 1989	Median selected monthly owner costs as a percentage of house- hold income in 1989		Median gross rent (dollars)	Median gross rent as a percentage of household income in 1989			
The State	205 938	10.1	23.6	78 899	575	20.2	54 295	175	12.5	100 225	48.6	2.9	311	25.0
One Representative at Large	205 938	10.1	23.6	78 899	575	20.2	54 295	175	12.5	100 225	48.6	2.9	311	25.0
COUNTY														
Beaverhead County	1 975	7.7	25.2	629	488	15.7	575	147	13.9	1 236	48.5	4.2	262	20.4
Big Horn County	2 160	10.1	24.8	630	428	19.0	607	149	13.8	1 288	40.6	4.2	247	23.8
Blaine County	1 479	6.2	26.2	394	335	19.6	432	170	13.0	900	39.6	3.7	235	23.7
Broadwater County	959	10.0	17.9	331	442	21.0	201	160	11.4	321	57.0	3.1	287	20.2
Carbon County	2 408	8.5	29.2	567	481	21.5	770	148	14.2	861	45.1	6.5	287	19.3
Carter County	456	5.5	22.0	60	40.0	20.4	104	50	12.9	133	10.4	2.7	242	22.2
Cascade County	19 187	11.4	25.7	9 438	582	20.5	4 852	175	11.9	10 946	47.1	2.7	318	25.7
Chouteau County	1 431	6.8	35.9	234	511	17.8	475	183	12.6	633	38.9	9.2	272	25.3
Custer County	3 100	8.6	28.8	1 260	497	17.8	1 045	197	13.0	1 531	49.5	4.8	270	24.3
Daniels County	730	8.4	36.3	126	566	22.2	305	193	14.8	189	30.2	9.5	226	16.5
Dawson County	2 685	6.4	27.7	956	538	16.2	840	207	13.0	1 006	42.3	4.3	271	22.3
Deer Lodge County	2 561	7.7	45.8	889	434	16.4	1 521	160	12.5	1 099	36.9	5.6	199	21.5
Fallon County	898	7.5	33.2	227	284	16.1	284	161	11.5	268	41.8	6.7	249	17.3
Fergus County	3 290	6.8	30.9	828	474	18.8	1 050	160	12.1	1 313	41.9	4.4	269	25.1
Flathead County	16 131	11.3	16.8	6 330	581	21.4	3 622	171	12.3	6 703	51.0	2.5	332	25.7
Gallatin County	11 125	14.2	13.9	4 687	648	21.3	1 949	180	11.8	7 890	55.5	7	342	27.9
Garfield County	409	6.8	43.3	32	510	16.8	91	159	15.2	148	36.3	11.9	280	23.5
Glacier County	2 325	7.4	25.0	655	461	17.6	702	169	12.8	1 491	37.6	2.6	257	23.4
Golden Valley County	2 561	6.5	36.4	34	444	17.9	80	131	13.1	49	39.1	18.8	243	19.3
Granite County	792	9.2	33.0	151	440	24.0	255	147	13.2	259	55.6	2.7	252	19.7
Hill County	4 056	9.9	26.8	1 567	570	17.5	1 148	181	13.0	2 370	48.3	3.0	292	22.9
Jefferson County	2 313	12.1	12.8	826	595	16.6	1 414	161	12.8	554	43.1	5.8	299	18.4
Judith Basin County	662	3.3	34.4	85	369	14.2	178	142	11.1	246	38.2	9.8	253	20.2
Lake County	5 485	11.5	18.1	1 564	466	20.5	1 350	157	12.8	2 329	48.6	1.8	263	24.7
Lewis and Clark County	12 769	10.4	18.7	6 017	619	20.3	2 579	207	12.3	5 880	48.4	2.1	329	25.1
Liberty County	565	5.0	37.7	80	464	16.0	192	189	12.6	223	34.5	2.7	267	21.8
Lincoln County	4 888	9.3	23.2	1 402	460	17.2	1 343	146	12.2	1 780	48.9	3.1	280	21.6
McCone County	660	3.6	34.4	63	492	18.5	210	195	14.1	184	33.7	9.8	297	16.8
Madison County	1 643	10.9	24.3	285	572	22.0	452	165	13.6	734	36.8	9.7	319	22.2
Meagher County	478	5.2	28.0	96	468	18.1	167	132	11.9	231	42.4	2.2	275	20.2
Mineral County	934	9.1	15.3	202	489	18.9	221	144	12.3	348	50.3	5.5	258	22.8
Missoula County	18 514	11.6	19.2	8 799	631	20.3	4 122	188	12.2	12 268	53.4	1.4	334	28.0
Musselshell County	1 297	7.7	26.4	201	421	17.3	422	139	12.3	364	40.9	12.6	264	23.7
Park County	3 724	12.6	26.1	1 131	496	21.5	1 066	169	12.3	1 895	47.5	3.0	299	24.4
Petroleum County	159	10.1	24.5	12	400	27.5	50	167	15.2	50	42.0	8.0	291	18.6
Phillips County	1 347	6.7	27.7	314	480	19.0	391	157	13.1	584	46.9	4.8	273	21.0
Pondera County	1 562	3.5	37.8	380	488	18.4	574	179	12.0	684	40.2	7.5	271	22.7
Powder River County	591	8.1	33.0	64	526	18.0	90	175	12.3	214	43.0	7.0	305	16.9
Powell County	1 603	6.7	24.8	541	313	17.7	430	150	12.4	631	53.4	5.4	253	20.1
Prairie County	448	5.4	34.4	53	450	13.9	179	143	13.4	120	22.5	8.3	239	14.3
Ravalli County	7 281	12.9	13.8	2 003	520	21.5	1 778	140	12.1	2 417	53.4	2.7	313	25.7
Richland County	2 797	7.7	26.7	876	543	16.8	870	171	12.6	1 159	43.4	3.5	280	18.4
Roosevelt County	2 361	9.1	28.9	694	478	18.4	752	181	14.0	1 333	45.3	7	280	25.5
Rosebud County	2 395	8.4	12.2	745	407	15.7	437	154	12.9	1 084	45.8	3.0	285	17.6
Sanders County	2 551	11.7	20.1	360	455	20.4	717	136	13.9	846	46.3	1.9	243	18.5
Sheridan County	1 463	4.4	41.3	287	505	21.8	331	168	12.5	436	39.2	5.0	276	23.1
Silver Bow County	9 644	7.1	38.5	3 473	499	17.4	4 621	188	13.4	4 055	46.8	4.4	265	23.6
Stillwater County	1 867	11.7	23.1	501	500	16.1	547	150	13.0	666	43.1	2.0	303	20.6
Sweet Grass County	924	6.6	26.1	212	450	17.4	295	144	12.3	357	31.1	2.0	252	24.8
Teton County	1 710	5.4	32.4	382	443	20.2	522	164	12.6	619	39.9	7.9	271	22.6
Toole County	1 381	11.5	32.4	368	489	16.8	501	172	12.1	541	41.2	2.2	243	20.6
Treasure County	219	10.0	34.7	39	355	13.9	69	176	11.2	120	31.7	11.7	188	26.5
Valley County	2 332	6.9	36.6	687	471	16.2	805	168	12.8	936	39.4	4.5	272	24.7
Wheatland County	9 629	3.8	33.6	132	369	20.5	273	134	13.3	210	48.6	6.1	226	21.4
Wibaux County	2 329	5.8	29.8	38	471	21.4	103	149	14.1	125	27.2	4.8	214	16.5
Yellowstone County	29 371	10.7	21.3	15 980	649	21.4	6 236	198	12.0	15 318	51.9	1.9	343	25.5
Yellowstone National Park	24	—	—	—	—	—	—	—	—	—	—	—	—	—
PLACE AND COUNTY SUBDIVISION														
Anaconda-Deer Lodge County	2 961	7.7	45.8	889	434	16.4	1 521	160	12.5	1 099	36.9	5.6	199	21.5
Billings city	20 297	11.0	23.6	12 147	652	21.4	4 668	204	12.2	12 884	52.0	1.7	346	25.7
Bozeman city	3 519	12.8	20.9	1 743	539	21.1	820	189	11.6	5 232	56.2	2	338	29.2
Butte-Silver Bow (remainder)	9 623	7.0	38.2	3 418	501	17.5	4 459	189	13.5	4 017	46.8	4.3	265	23.6
Great Falls city	14 207	10.8	27.7	8 040	580	20.2	3 806	179	11.7	8 432	47.5	2.6	310	27.1
Heater city	2 387	12.9	26.7	1 813	579	17.3	743	181	12.8	631	50.9	2.3	299	25.2
Helena city	5 851	9.6	25.2	3 286	644	20.0	1 503	226	12.4	4 465	50.6	2.0	321	25.7
Kalispell city	2 826	10.8	23.6	1 566	536	21.0	930	180	13.3	2 411	50.6	1.2	321	28.0
Missoula city	8 750	11.8	23.3	5 083	626	20.8	2 309	197	12.7	8 927	53.7	1.6	324	28.4
Orchard Homes CDP	2 505	10.5	22.1	1 047	633	16.6	642	186	11.9	1 664	50.7	7	366	27.2
Butte-Silver Bow	9 844	7.1	38.5	3 473	499	17.4	4 621	188	13.4	4 055	46.8	4.4	265	23.6

Table 32. **Selected Housing Characteristics for American Indian and Alaska Native Areas: 1990**

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

Congressional District American Indian Area	All housing units		Occupied housing units with American Indian, Eskimo, or Aleut householder								
	TotalOccupied		TotalOwner occupiedRenter occupiedLacking complete plumbing facilities				Vehicles available		Specified owner, median selected monthly owner costs (dollars)		Specified renter paying cash rent, median gross rent (dollars)
							None1 or more		With a mortgage	Not mortgaged	
One Representative at Large	361 155	306 163	13 396	6 501	6 895	181	1 931	11 465	358	152	252
AMERICAN INDIAN RESERVATION AND TRUST LAND											
All areas	22 060	17 489	8 177	4 582	3 595	126	1 039	7 138	300-	148	223
Blackfeet Reservation, MT	2 973	2 309	1 863	976	887	33	258	1 605	300-	150	239
Crow Reservation and Trust Lands, MT	2 081	1 705	1 075	672	403	36	83	992	300-	155	243
Flathead Reservation, MT	10 382	7 863	1 741	1 059	682	13	171	1 570	308	118	212
Fort Belknap Reservation and Trust Lands, MT	845	704	640	355	285	15	114	526	300-	127	200-
Fort Peck Reservation, MT	3 991	3 450	1 602	768	834	10	254	1 348	377	162	252
Northern Cheyenne Reservation and Trust Lands, MT-SD	(pt.)										
Rocky Boy's Reservation and Trust Lands, MT	1 287	1 037	871	544	327	17	107	764	300-	150	200-
Crow/Northern Cheyenne Area, MT	498	421	385	208	177	2	52	333	300-	136	210
	3	-							-	-	-

Table 33. **Percent in Sample, Standard Error, and Confidence Bounds for Population Characteristics: 1990**

[For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	Persons			Median income in 1989 (dollars)					
	100-percent count	Percent in sample	Per capita income in 1989 (dollars) — Standard error	Household		Family		Nonfamily household	
				90-percent confidence bounds		90-percent confidence bounds		90-percent confidence bounds	
				Lower	Upper	Lower	Upper	Lower	Upper
The State	799 065	18.8	38	22 828	23 149	27 845	28 244	12 365	12 689
One Representative of Large	799 065	18.8	38	22 828	23 149	27 845	28 244	12 365	12 689
COUNTY									
Beaverhead County	8 424	16.8	351	19 438	22 347	23 211	27 125	8 842	13 388
Big Horn County	11 337	15.1	240	17 654	20 492	19 482	22 178	8 714	13 191
Blaine County	6 728	40.2	192	18 679	19 344	20 544	22 150	10 028	11 598
Broadwater County	3 318	38.2	192	21 158	21 552	22 861	22 339	15 103	13 529
Carbon County	8 080	32.5	277	17 177	19 907	22 058	24 345	9 822	11 477
Carters County	1 503	46.8	539	15 474	17 442	18 719	21 972	7 546	10 282
Cascade County	77 691	16.0	146	23 244	24 156	27 273	28 344	12 333	13 593
Chouteau County	5 452	32.5	311	21 426	23 506	24 908	28 053	11 777	15 197
Custer County	11 697	16.8	299	20 292	22 404	25 120	28 285	11 000	13 699
Daniels County	2 266	33.2	342	20 253	22 609	22 849	25 446	11 829	15 530
Dawson County	9 505	16.1	312	22 090	24 922	26 496	30 272	10 874	13 245
Deer Lodge County	10 278	14.8	263	19 011	21 543	25 221	28 246	9 070	11 645
Fallon County	3 103	40.7	322	22 024	24 411	25 643	28 208	12 238	15 335
Fergus County	12 083	19.5	318	20 577	22 218	24 612	27 216	11 306	13 446
Flathead County	59 718	14.1	166	23 409	24 882	27 706	29 429	11 976	13 459
Gallatin County	50 463	17.1	178	22 593	24 096	29 049	30 589	12 452	13 785
Garfield County	1 589	44.6	571	16 001	18 537	19 295	22 324	9 823	11 681
Glacier County	12 121	25.6	165	17 458	19 739	20 256	22 755	10 685	13 724
Golden Valley County	912	37.0	562	15 340	20 542	17 865	25 481	8 395	15 243
Granite County	2 548	41.1	342	16 865	19 787	21 065	23 956	9 339	11 642
Hill County	17 654	16.5	264	24 375	26 557	29 898	32 176	11 709	14 447
Jefferson County	7 939	25.7	389	30 221	32 687	35 408	38 245	12 382	15 738
Judith Basin County	2 282	45.1	458	21 502	24 008	24 694	27 356	12 319	15 989
Lake County	21 041	23.2	175	18 971	20 515	22 453	24 123	9 168	11 051
Lewis and Clark County	47 495	15.4	167	25 791	27 028	31 420	32 566	12 882	13 512
Liberty County	2 295	43.0	354	23 294	26 289	26 420	30 325	12 311	15 989
Lincoln County	17 481	20.4	206	20 170	21 626	24 001	25 956	10 311	11 528
McCone County	2 276	43.8	311	19 227	21 643	23 061	26 346	8 954	12 861
Madison County	5 989	23.2	331	20 151	23 778	24 578	27 398	10 054	12 456
Meagher County	1 819	44.6	325	17 435	20 254	20 981	25 281	8 820	12 622
Mineral County	3 315	35.7	253	19 817	22 022	22 491	25 817	11 443	14 004
Missoula County	78 687	13.4	158	24 059	24 059	29 594	31 131	12 675	13 909
Musselshell County	4 106	31.2	310	15 807	17 523	19 247	22 100	7 312	10 080
Park County	14 562	15.7	313	21 650	23 559	24 678	26 673	11 487	14 341
Petroleum County	519	46.1	929	17 123	22 212	18 251	23 708	10 044	13 512
Phillips County	5 163	35.3	297	21 055	23 435	25 787	28 263	9 976	12 261
Pondera County	6 433	21.6	329	21 663	25 542	26 276	29 252	10 589	13 094
Powder River County	2 090	43.0	602	21 234	24 039	25 049	28 926	10 289	13 398
Powell County	12 620	12.7	196	19 627	23 482	22 021	26 686	10 636	14 492
Prairie County	1 383	48.9	303	15 584	17 861	18 257	22 049	7 534	11 089
Ravalli County	25 010	20.7	179	20 514	21 712	23 619	25 415	10 771	12 032
Richland County	10 716	18.6	270	22 323	24 185	24 804	27 747	11 310	15 925
Rosevelt County	10 999	28.4	158	18 993	20 270	21 074	22 936	9 746	12 142
Rosebud County	10 505	14.9	303	30 798	30 798	29 611	34 523	14 509	20 171
Sanders County	8 669	27.1	269	18 010	19 222	20 481	22 159	9 672	11 978
Sheridan County	4 732	39.7	215	20 030	21 425	23 739	26 658	10 342	11 814
Silver Bow County	33 941	14.5	222	20 264	22 167	28 289	30 695	10 471	11 802
Stillwater County	6 536	26.8	294	22 020	25 487	27 777	30 543	10 342	13 089
Sweet Grass County	3 154	37.0	376	19 878	21 845	22 162	27 195	8 705	11 549
Teton County	6 271	31.8	294	21 051	23 249	24 885	27 846	11 372	15 106
Toole County	5 046	19.9	473	23 218	27 328	28 530	31 836	10 923	14 606
Treasure County	874	45.3	789	16 339	19 974	20 098	25 268	10 106	12 588
Valley County	8 239	24.2	266	20 777	22 852	25 599	28 364	9 791	12 038
Wheatland County	2 246	41.1	297	16 034	17 916	19 344	21 828	7 710	9 985
Wibaux County	1 191	45.2	367	18 147	21 340	22 295	26 052	8 493	14 982
Yellowstone County	113 419	14.1	130	25 475	26 409	30 970	32 096	13 429	14 678
Yellowstone National Park	52	7.7	-	-	32 500	-	32 500	-	-
PLACE AND COUNTY SUBDIVISION									
Anaconda-Deer Lodge County	10 278	14.8	263	19 011	21 543	25 221	28 246	9 070	11 645
Billings city	81 151	13.7	165	25 104	26 174	31 222	32 618	13 465	14 855
Bozeman city	22 640	13.6	188	20 188	22 621	25 521	28 293	11 703	13 576
Butte-Silver Bow (remainder)	33 336	13.9	229	20 337	22 277	28 416	30 874	10 482	11 864
Great Falls city	55 097	15.2	186	22 494	23 732	27 832	29 630	12 168	13 543
Heave city	10 201	11.9	9	24 180	25 884	30 884	35 020	11 101	14 549
Helena city	24 569	14.4	264	24 553	26 390	31 949	35 420	14 059	16 039
Kalispell city	11 917	13.7	345	18 068	21 232	25 636	29 756	10 695	12 462
Missoula city	42 918	13.7	210	20 281	21 784	28 764	31 111	11 943	13 265
Orchard Homes CDP	10 317	14.5	353	21 104	24 231	25 284	30 409	12 417	15 724
Butte-Silver Bow	33 941	14.5	222	20 264	22 167	28 289	30 695	10 471	11 802

Table 34. Percent in Sample and Confidence Bounds for Housing Characteristics: 1990

[For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	Housing units		Median selected monthly owner costs (dollars)				Median selected monthly owner costs as a percentage of household income in 1989				Median gross rent (dollars)		Median gross rent as a percentage of household income in 1989	
	100-percent count	Percent in sample	With a mortgage		Not mortgaged		With a mortgage		Not mortgaged		90-percent confidence bounds		90-percent confidence bounds	
			90-percent confidence bounds		90-percent confidence bounds		90-percent confidence bounds		90-percent confidence bounds		Lower	Upper	Lower	Upper
			Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper				
The State	361 155	19.5	572	579	174	176	20.0	20.3	12.3	12.7	309	312	24.8	25.2
One Representative at Large	361 155	19.5	572	579	174	176	20.0	20.3	12.3	12.7	309	312	24.8	25.2
COUNTY														
Beebehead County	4 128	17.8	459	524	136	160	13.4	17.9	11.8	15.9	249	275	17.9	23.2
Big Horn County	15 3	15.3	389	463	139	161	16.1	21.9	11.6	16.0	235	268	20.3	26.9
Blaine County	2 930	40.2	299	371	161	179	17.6	21.6	11.7	14.2	224	245	22.1	25.3
Broadwater County	1 593	41.0	423	461	150	171	19.0	22.7	9.8	13.1	270	308	17.5	22.6
Carbon County	4 828	35.6	462	501	143	155	20.1	22.9	13.1	15.4	276	299	17.5	21.3
Center County	8 316	48.4	380	540	140	164	20.0	58.5	10.8	15.1	133	263	18.6	25.4
Cascade County	33 063	16.5	571	593	171	179	20.0	21.0	11.2	12.5	312	323	24.9	26.4
Chouteau County	2 668	34.7	474	549	175	191	15.1	20.6	11.3	13.9	253	290	21.6	28.1
Custer County	5 405	16.7	174	524	184	209	15.9	19.7	11.5	14.4	257	283	22.7	27.0
Daniels County	1 220	35.1	522	607	183	202	19.6	24.6	12.9	16.7	205	247	13.0	20.0
Dawson County	4 487	15.7	515	561	159	219	14.2	18.2	11.3	14.7	249	294	20.0	24.6
Deer Lodge County	4 830	15.0	405	462	152	169	14.3	18.6	11.2	13.7	187	220	18.9	23.9
Fallon County	1 525	42.2	455	518	123	168	16.1	20.7	10.2	12.8	227	269	15.2	19.9
Fergus County	5 732	19.8	450	497	151	168	16.6	20.5	10.9	13.4	251	287	23.1	27.2
Flathead County	26 979	14.2	567	595	166	176	20.7	22.0	11.5	13.1	324	340	24.7	26.8
Gallatin County	21 350	17.6	635	661	173	187	20.7	21.9	10.8	12.7	336	349	27.0	28.8
Garfield County	924	47.3	379	559	145	177	11.7	24.8	12.4	17.9	267	292	20.1	26.7
Glacier County	4 797	24.1	421	501	162	177	15.6	19.6	11.4	14.2	242	273	21.8	25.0
Golden Valley County	432	41.7	316	508	115	147	11.5	14.7	10.3	16.0	227	270	12.3	16.7
Granite County	1 924	35.1	397	485	136	160	21.7	26.0	11.3	15.1	235	268	16.3	22.5
Hill County	7 345	15.8	544	596	173	189	15.8	19.2	11.5	14.5	278	306	21.4	24.5
Jefferson County	3 302	27.6	566	626	151	156	15.0	18.1	11.1	14.5	251	271	31.5	36.0
Judith Basin County	48 346	48.6	332	405	131	143	11.6	16.8	9.9	12.3	224	268	16.8	22.6
Lake County	10 972	21.9	446	487	151	164	19.2	21.5	11.7	13.8	252	274	23.6	26.5
Lewis and Clark County	21 412	15.6	605	632	200	214	19.5	21.0	11.3	13.2	322	337	24.1	26.2
Lincoln County	1 007	48.6	396	524	182	245	18.2	24.5	11.4	14.2	246	287	13.0	20.1
McCone County	8 002	21.3	442	478	141	152	15.8	18.7	11.1	13.2	272	288	20.2	23.0
McIntosh County	1 161	48.3	459	528	184	205	14.6	21.5	12.4	15.7	283	317	13.9	19.6
Madison County	25 0	40.7	509	627	156	177	15.2	20.8	11.7	14.7	299	340	20.1	24.4
Meagher County	1 259	49.1	435	501	124	139	15.0	21.1	10.4	13.5	244	304	17.1	23.7
Mineral County	1 635	36.0	447	526	137	154	16.0	21.7	10.5	14.2	244	277	19.3	26.3
Missoula County	33 466	13.5	618	644	183	192	19.6	21.0	11.4	13.0	327	341	27.1	29.0
Musselshell County	2 183	33.0	380	467	132	147	14.4	20.2	10.9	13.7	244	283	21.6	26.5
Park County	6 926	15.9	475	528	162	176	19.5	23.4	10.9	13.7	285	314	22.5	26.7
Petroleum County	293	49.8	257	471	156	179	12.0	34.0	11.6	18.7	272	315	10.1	26.2
Phillips County	2 765	35.7	451	511	148	167	16.7	21.1	11.7	14.6	257	288	18.9	22.8
Pondera County	2 618	22.0	453	524	168	191	15.4	20.9	10.5	13.6	249	295	21.0	24.4
Powder River County	1 096	48.0	486	562	165	185	14.8	22.2	10.0	14.5	276	333	13.9	19.9
Powell County	2 835	15.4	380	447	138	163	14.7	20.7	10.1	14.7	233	275	16.7	23.6
Prairie County	749	48.9	297	406	137	150	10.7	17.2	11.7	15.0	220	257	11.4	17.3
Ravalli County	11 099	20.5	501	540	135	145	20.3	22.7	11.2	13.1	302	323	24.3	27.2
Richland County	4 825	19.2	511	575	161	182	14.9	18.7	11.2	14.1	266	293	16.4	20.5
Rosebud County	4 265	29.4	450	508	174	187	16.6	20.2	12.7	15.4	268	292	16.6	20.5
Roseburg County	4 251	15.0	557	645	140	170	11.8	15.7	10.4	15.4	253	316	15.2	20.0
Sanders County	4 335	29.0	430	481	129	142	17.7	22.6	12.6	15.3	232	259	16.5	20.5
Shelburn County	2 417	41.2	472	538	161	175	19.5	24.0	11.4	13.6	260	292	21.5	24.6
Silver Bow County	15 474	14.2	485	521	146	164	16.6	18.6	11.3	12.6	232	276	14.2	17.3
Stillwater County	3 291	26.4	472	539	142	161	14.2	18.1	11.3	14.6	285	321	18.1	22.7
Sweet Grass County	1 639	38.3	420	480	136	152	14.9	19.9	10.8	13.8	236	272	23.0	27.2
Teton County	2 725	34.6	419	466	154	174	18.0	21.5	10.8	13.2	255	287	19.7	25.7
Toole County	2 354	21.7	460	529	162	183	14.0	19.5	10.4	13.8	221	276	17.4	24.9
Treasure County	448	48.0	330	380	162	189	10.2	17.7	8.9	13.5	170	237	21.5	31.2
Valley County	5 304	23.4	449	494	158	174	14.4	18.1	11.5	14.2	260	284	22.2	27.4
Wheatland County	1 129	47.0	349	390	129	139	17.3	23.8	11.9	14.7	210	242	19.5	23.4
Wibaux County	563	48.7	396	580	138	161	16.2	25.1	11.8	16.5	183	265	13.3	19.7
Yellowstone County	48 781	13.9	639	659	194	203	21.0	21.8	11.3	12.6	337	348	24.8	26.3
Yellowstone National Park	46	10.9	--	--	--	--	--	--	--	--	--	--	--	--
PLACE AND COUNTY SUBDIVISION														
Anaconda-Deer Lodge County	4 830	15.0	405	462	152	169	14.3	18.6	11.2	13.7	187	220	18.9	23.9
Billings city	35 964	13.5	640	664	198	209	20.9	21.8	11.4	12.9	340	352	24.9	26.5
Bozeman city	13 917	14.9	614	661	177	191	17.7	22.6	9.9	13.3	238	249	27.9	30.7
Butte-Silver Bow (remainder)	15 180	13.7	486	524	185	194	16.3	18.7	12.6	14.3	253	277	24.3	27.1
Great Falls city	24 157	15.2	568	593	175	183	19.5	20.8	11.0	12.5	303	317	26.3	28.0
Hailey city	4 346	11.8	549	610	171	192	15.0	19.6	10.2	14.5	279	318	23.1	27.5
Helena city	11 053	14.5	624	663	218	235	18.6	20.9	11.3	13.6	312	330	24.6	26.9
Kalispell city	5 537	13.7	507	566	170	190	20.2	22.5	11.5	15.1	306	335	26.6	29.5
Missoula city	18 488	13.6	608	643	191	204	19.0	21.6	11.6	13.8	316	331	27.4	29.4
Orchard Home CDP	14 4	14.2	646	677	174	191	14.5	18.7	10.7	13.8	252	281	27.7	30.0
Butte-Silver Bow	15 474	14.2	485	521	184	192	16.2	18.6	12.6	14.3	253	276	24.4	27.1

Table 35. Percent in Sample, Standard Error, and Confidence Bounds for American Indian and Alaska Native Areas: 1990

[For definitions of terms and meanings of symbols, see text]

Congressional District American Indian Area	Persons		Housing units		Per capita income in 1989 (dollars) for American Indian, Eskimo, or Aleut per- sons—Stan- dard error	Occupied housing units with an American Indian, Eskimo, or Aleut householder					
						Median selected monthly owner costs (dollars)				Median gross rent (dollars)	
						With a mortgage		Not mortgaged		90-percent confidence bounds	
						90-percent confidence bounds		90-percent confidence bounds			
	100-percent count	Percent in sample	100-percent count	Percent in sample		Lower	Upper	Lower	Upper	Lower	Upper
One Representative at Large -----	799 065	18.8	361 155	19.5	41	332	384	146	159	245	259
AMERICAN INDIAN RESERVATION AND TRUST LAND											
All areas -----	55 165	25.0	22 142	24.4	45	237	275	142	155	215	231
Blackfeet Reservation, MT -----	8 549	29.2	3 004	28.6	92	214	303	137	163	225	253
Crow Reservation and Trust Lands, MT -----	6 370	14.4	2 091	15.5	104	171	331	133	177	214	272
Flathead Reservation, MT -----	21 259	23.4	10 399	23.2	133	260	366	98	138	190	230
Fort Belknap Reservation and Trust Lands, MT -----	2 508	46.8	856	46.1	137	139	186	100	155	129	167
Fort Peck Reservation, MT -----	10 595	26.1	3 983	24.9	105	327	427	149	175	235	269
Northern Cheyenne Reservation and Trust Lands, MT--SD (pt.) -----	3 923	14.1	1 291	13.8	110	147	279	131	168	122	199
Rocky Boy's Reservation and Trust Lands, MT -----	1 954	45.3	514	46.1	151	143	209	115	158	181	230
Crow/Northern Cheyenne Area, MT -----	7	—	4	50.0	—	—	—	—	—	—	—

APPENDIX A.

Area Classifications

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These definitions are for all geographic entities and concepts that the Census Bureau will include in its standard 1990 census data products. Not all entities and concepts are shown in any one 1990 census data product. For a description of geographic areas included in each data product, see appendix F.

AMERICAN INDIAN AND ALASKA NATIVE AREA

Alaska Native Regional Corporation (ANRC)

Alaska Native Regional Corporations (ANRC's) are corporate entities established under the Alaska Native Claims Settlement Act of 1972, Public Law 92-203, as amended by Public Law 94-204, to conduct both business and nonprofit affairs of Alaska Natives. Alaska is divided into

12 ANRC's that cover the entire State, except for the Annette Islands Reserve. The boundaries of the 12 ANRC's were established by the Department of the Interior, in cooperation with Alaska Natives. Each ANRC was designed to include, as far as practicable, Alaska Natives with a common heritage and common interests. The ANRC boundaries for the 1990 census were identified by the Bureau of Land Management. A 13th region was established for Alaska Natives who are not permanent residents and who chose not to enroll in one of the 12 ANRC's; no census products are prepared for the 13th region. ANRC's were first identified for the 1980 census.

Each ANRC is assigned a two-digit census code ranging from 07 through 84. These census codes are assigned in alphabetical order of the ANRC's.

Alaska Native Village (ANV) Statistical Area

Alaska Native villages (ANV's) constitute tribes, bands, clans, groups, villages, communities, or associations in Alaska that are recognized pursuant to the Alaska Native Claims Settlement Act of 1972, Public Law 92-203. Because ANV's do not have legally designated boundaries, the Census Bureau has established Alaska Native village statistical areas (ANVSA's) for statistical purposes. For the 1990 census, the Census Bureau cooperated with officials of the nonprofit corporation within each participating Alaska Native Regional Corporation (ANRC), as well as other knowledgeable officials, to delineate boundaries that encompass the settled area associated with each ANV. ANVSA's are located within ANRC's and do not cross ANRC boundaries. ANVSA's for the 1990 census replace the ANV's that the Census Bureau recognized for the 1980 census.

Each ANVSA is assigned a four-digit census code ranging from 6001 through 9899. Each ANVSA also is assigned a five-digit FIPS code. Both the census and FIPS codes are assigned in alphabetical order of ANVSA's.

American Indian Reservation and Trust Land

American Indian Reservation—Federal American Indian reservations are areas with boundaries established by treaty, statute, and/or executive or court order, and recognized by the Federal Government as territory in which American Indian tribes have jurisdiction. State reservations are lands held in trust by State governments for the use and benefit of a given tribe. The reservations and their boundaries were identified for the 1990 census by the Bureau of Indian Affairs (BIA), Department of Interior (for Federal reservations), and State governments (for State reservations). The names of American Indian reservations recognized by State governments, but not by the Federal Government, are followed by "(State)." Areas composed of reservation lands that are administered jointly and/or are claimed by two reservations, as identified by the BIA, are called "joint areas," and are treated as separate American Indian reservations for census purposes.

Federal reservations may cross State boundaries, and Federal and State reservations may cross county, county subdivision, and place boundaries. For reservations that cross State boundaries, only the portion of the reservations in a given State are shown in the data products for that State; the entire reservations are shown in data products for the United States.

Each American Indian reservation is assigned a four-digit census code ranging from 0001 through 4989. These census codes are assigned in alphabetical order of American Indian reservations nationwide, except that joint areas appear at the end of the code range. Each American Indian reservation also is assigned a five-digit FIPS code; because the FIPS codes are assigned in alphabetical sequence of American Indian reservations within each State, the FIPS code is different in each State for reservations in more than one State.

Trust Land—Trust lands are property associated with a particular American Indian reservation or tribe, held in trust by the Federal Government. Trust lands may be held in trust either for a tribe (tribal trust land) or for an individual member of a tribe (individual trust land). Trust lands recognized for the 1990 census comprise all tribal trust lands and inhabited individual trust lands located outside of a reservation boundary. As with other American Indian areas, trust lands may be located in more than one State. Only the trust lands in a given State are shown in the data products for that State; all trust lands associated with a reservation or tribe are shown in data products for the United States. The Census Bureau first reported data for tribal trust lands for the 1980 census.

Trust lands are assigned a four-digit census code and a five-digit FIPS code, the same as that for the reservation with which they are associated. Trust lands not associated with a reservation are presented by tribal name, interspersed alphabetically among the reservations.

Tribal Designated Statistical Area (TDSA)

Tribal designated statistical areas (TDSA's) are areas, delineated outside Oklahoma by federally- and State-recognized tribes without a land base or associated trust lands, to provide statistical areas for which the Census Bureau tabulates data. TDSA's represent areas generally containing the American Indian population over which federally-recognized tribes have jurisdiction and areas in which State tribes provide benefits and services to their members. The names of TDSA's delineated by State-recognized tribes are followed by "(State)." The Census Bureau did not recognize TDSA's before the 1990 census.

Each TDSA is assigned a four-digit census code ranging from 9001 through 9589. The census codes are assigned in alphabetical order of TDSA's nationwide. Each TDSA also is assigned a five-digit FIPS code in alphabetical order within State.

Tribal Jurisdiction Statistical Area (TJSA)

Tribal jurisdiction statistical areas (TJSA's) are areas, delineated by federally-recognized tribes in Oklahoma without a reservation, for which the Census Bureau tabulates data. TJSA's represent areas generally containing the American Indian population over which one or more tribal governments have jurisdiction; if tribal officials delineated adjacent TJSA's so that they include some duplicate territory, the overlap area is called a "joint use area," which is treated as a separate TJSA for census purposes.

TJSA's replace the "Historic Areas of Oklahoma (excluding urbanized areas)" shown in 1980 census data products. The Historic Areas of Oklahoma comprised the territory located within reservations that had legally established boundaries from 1900 to 1907; these reservations were dissolved during the 2- to 3-year period preceding the statehood of Oklahoma in 1907. The Historic Areas of Oklahoma (excluding urbanized areas) were identified only for the 1980 census.

Each TJSA is assigned a four-digit census code ranging from 5001 through 5989. The census codes are assigned in alphabetical order of TJSA's, except that joint areas appear at the end of the code range. Each TJSA also is assigned a five-digit FIPS code in alphabetical order within Oklahoma.

AREA MEASUREMENT

Area measurements provide the size, in square kilometers (also in square miles in printed reports), recorded for each geographic entity for which the Census Bureau tabulates data in general-purpose data products (except crews-of-vessels entities and ZIP Codes). (Square kilometers may be divided by 2.59 to convert an area measurement to square miles.) Area was calculated from the specific set of boundaries recorded for the entity in the Census Bureau's geographic data base (see "TIGER"). On machine-readable files, area measurements are shown to three decimal places; the decimal point is implied. In printed reports and listings, area measurements are shown to one decimal.

The Census Bureau provides measurements for both land area and total water area for the 1990 census; the water figure includes inland, coastal, Great Lakes, and territorial water. (For the 1980 census, the Census Bureau provided area measurements for land and inland water.) The Census Bureau will provide measurements for the component types of water for the affected entities in a separate file. "Inland water" consists of any lake, reservoir, pond, or similar body of water that is recorded in the Census Bureau's geographic data base. It also includes any river, creek, canal, stream, or similar feature that is recorded in that data base as a two-dimensional feature (rather than as a single line). The portions of the oceans and related large embayments (such as the Chesapeake Bay and Puget Sound), the Gulf of Mexico, and the Caribbean Sea that belong to the United States and its territories are considered to be "coastal" and "territorial"

waters; the Great Lakes are treated as a separate water entity. Rivers and bays that empty into these bodies of water are treated as "inland water" from the point beyond which they are narrower than one nautical mile across. Identification of land and inland, coastal, and territorial waters is for statistical purposes, and does not necessarily reflect legal definitions thereof.

By definition, census blocks do not include water within their boundaries; therefore, the water area of a block is always zero. Land area measurements may disagree with the information displayed on census maps and in the TIGER file because, for area measurement purposes, features identified as "intermittent water" and "glacier" are reported as land area. For this reason, it may not be possible to derive the land area for an entity by summing the land area of its component census blocks. In addition, the water area measurement reported for some geographic entities includes water that is not included in any lower-level geographic entity. Therefore, because water is contained only in a higher-level geographic entity, summing the water measurements for all the component lower-level geographic entities will not yield the water area of that higher-level entity. This occurs, for example, where water is associated with a county but is not within the legal boundary of any minor civil division, or the water is associated with a State but is not within the legal boundary of any county. Crews-of-vessels entities (see "Census Tract and Block Numbering Area" and "Block") do not encompass territory and therefore have no area measurements. ZIP Codes do not have specific boundaries, and therefore, also do not have area measurements.

The accuracy of any area measurement figure is limited by the inaccuracy inherent in (1) the location and shape of the various boundary features in the data base, and (2) rounding affecting the last digit in all operations that compute and/or sum the area measurements.

BLOCK

Census blocks are small areas bounded on all sides by visible features such as streets, roads, streams, and railroad tracks, and by invisible boundaries such as city, town, township, and county limits, property lines, and short, imaginary extensions of streets and roads.

Tabulation blocks, used in census data products, are in most cases the same as collection blocks, used in the census enumeration. In some cases, collection blocks have been "split" into two or more parts required for data tabulations. Tabulation blocks do not cross the boundaries of counties, county subdivisions, places, census tracts or block numbering areas, American Indian and Alaska Native areas, congressional districts, voting districts, urban or rural areas, or urbanized areas. The 1990 census is the first for which the entire United States and its possessions are block-numbered.

Blocks are numbered uniquely within each census tract or BNA. A block is identified by a three-digit number, sometimes with a single alphabetical suffix. Block numbers

with suffixes generally represent collection blocks that were "split" in order to identify separate geographic entities that divide the original block. For example, when a city limit runs through data collection block 101, the data for the portion inside the city is tabulated in block 101A and the portion outside, in block 101B. A block number with the suffix "Z" represents a "crews-of-vessels" entity for which the Census Bureau tabulates data, but that does not represent a true geographic area; such a block is shown on census maps associated with an anchor symbol and a census tract or block numbering area with a .99 suffix.

BLOCK GROUP (BG)

Geographic Block Group

A geographic block group (BG) is a cluster of blocks having the same first digit of their three-digit identifying numbers within a census tract or block numbering area (BNA). For example, BG 3 within a census tract or BNA includes all blocks numbered between 301 and 397. In most cases, the numbering involves substantially fewer than 97 blocks. Geographic BG's never cross census tract or BNA boundaries, but may cross the boundaries of county subdivisions, places, American Indian and Alaska Native areas, urbanized areas, voting districts, and congressional districts. BG's generally contain between 250 and 550 housing units, with the ideal size being 400 housing units.

Tabulation Block Group

In the data tabulations, a geographic BG may be split to present data for every unique combination of county subdivision, place, American Indian and Alaska Native area, urbanized area, voting district, urban/rural and congressional district shown in the data product; for example, if BG 3 is partly in a city and partly outside the city, there will be separate tabulated records for each portion of BG 3. BG's are used in tabulating decennial census data nationwide in the 1990 census, in all block-numbered areas in the 1980 census, and in Tape Address Register (TAR) areas in the 1970 census. For purposes of data presentation, BG's are a substitute for the enumeration districts (ED's) used for reporting data in many parts of the United States for the 1970 and 1980 censuses, and in all areas for pre-1970 censuses.

BOUNDARY CHANGES

The boundaries of some counties, county subdivisions, American Indian and Alaska Native areas, and many incorporated places, changed between those reported for the 1980 census and January 1, 1990. Boundary changes to legal entities result from:

1. Annexations to or detachments from legally established governmental units.
2. Mergers or consolidations of two or more governmental units.
3. Establishment of new governmental units.
4. Disincorporations or disorganizations of existing governmental units.
5. Changes in treaties and Executive Orders.

The historical counts shown for counties, county subdivisions, and places are not updated for such changes, and thus reflect the population and housing units in the area as delineated at each census. Information on boundary changes reported between the 1980 and 1990 censuses for counties, county subdivisions, and incorporated places is presented in the "User Notes" section of the technical documentation of Summary Tape Files 1 and 3, and in the 1990 CPH-2, *Population and Housing Unit Counts* printed reports. For information on boundary changes for such areas in the decade preceding other decennial censuses, see the *Number of Inhabitants* reports for each census. Boundary changes are not reported for some areas, such as census designated places and block groups.

CENSUS REGION AND CENSUS DIVISION

Census Division

Census divisions are groupings of States that are subdivisions of the four census regions. There are nine divisions, which the Census Bureau adopted in 1910 for the presentation of data. The regions, divisions, and their constituent States are:

Northeast Region

New England Division:

Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut

Middle Atlantic Division:

New York, New Jersey, Pennsylvania

Midwest Region

East North Central Division:

Ohio, Indiana, Illinois, Michigan, Wisconsin

West North Central Division:

Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas

South Region

South Atlantic Division:

Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida

East South Central Division:

Kentucky, Tennessee, Alabama, Mississippi

West South Central Division:

Arkansas, Louisiana, Oklahoma, Texas

West Region

Mountain Division:

Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada

Pacific Division:

Washington, Oregon, California, Alaska, Hawaii

Census Region

Census regions are groupings of States that subdivide the United States for the presentation of data. There are four regions—Northeast, Midwest, South, and West. Each of the four census regions is divided into two or more census divisions. Prior to 1984, the Midwest region was named the North Central region. From 1910, when census regions were established, through the 1940's, there were three regions—North, South, and West.

CENSUS TRACT AND BLOCK NUMBERING AREA

Block Numbering Area (BNA)

Block numbering areas (BNA's) are small statistical subdivisions of a county for grouping and numbering blocks in nonmetropolitan counties where local census statistical areas committees have not established census tracts. State agencies and the Census Bureau delineated BNA's for the 1990 census, using guidelines similar to those for the delineation of census tracts. BNA's do not cross county boundaries.

BNA's are identified by a four-digit basic number and may have a two-digit suffix; for example, 9901.07. The decimal point separating the four-digit basic BNA number from the two-digit suffix is shown in printed reports, in microfiche, and on census maps; in machine-readable files, the decimal point is implied. Many BNA's do not have a suffix; in such cases, the suffix field is left blank in all data products. BNA numbers range from 9501 through 9989.99, and are unique within a county (numbers in the range of 0001 through 9499.99 denote a census tract). The suffix .99 identifies a BNA that was populated entirely by persons aboard one or more civilian or military ships. A "crews-of-vessels" BNA appears on census maps only as an anchor symbol with its BNA number (and block numbers on maps showing block numbers); the BNA relates to the ships associated with the onshore BNA's having the same four-digit basic number. Suffixes in the range .80 through .98 usually identify BNA's that either were revised or were created during the 1990 census data collection activities.

Some of these revisions produced BNA's that have extremely small land area and may have little or no population or housing. For data analysis, such a BNA can be summarized with an adjacent BNA.

Census Tract

Census tracts are small, relatively permanent statistical subdivisions of a county. Census tracts are delineated for all metropolitan areas (MA's) and other densely populated counties by local census statistical areas committees following Census Bureau guidelines (more than 3,000 census tracts have been established in 221 counties outside MA's). Six States (California, Connecticut, Delaware, Hawaii, New Jersey, and Rhode Island) and the District of Columbia are covered entirely by census tracts. Census tracts usually have between 2,500 and 8,000 persons and, when first delineated, are designed to be homogeneous with respect to population characteristics, economic status, and living conditions. Census tracts do not cross county boundaries. The spatial size of census tracts varies widely depending on the density of settlement. Census tract boundaries are delineated with the intention of being maintained over a long time so that statistical comparisons can be made from census to census. However, physical changes in street patterns caused by highway construction, new development, etc., may require occasional revisions; census tracts occasionally are split due to large population growth, or combined as a result of substantial population decline. Census tracts are referred to as "tracts" in all 1990 data products.

Census tracts are identified by a four-digit basic number and may have a two-digit suffix; for example, 6059.02. The decimal point separating the four-digit basic tract number from the two-digit suffix is shown in printed reports, in microfiche, and on census maps; in machine-readable files, the decimal point is implied. Many census tracts do not have a suffix; in such cases, the suffix field is left blank in all data products. Leading zeros in a census tract number (for example, 002502) are shown only on machine-readable files.

Census tract numbers range from 0001 through 9499.99 and are unique within a county (numbers in the range of 9501 through 9989.99 denote a block numbering area). The suffix .99 identifies a census tract that was populated entirely by persons aboard one or more civilian or military ships. A "crews-of-vessels" census tract appears on census maps only as an anchor symbol with its census tract number (and block numbers on maps showing block numbers). These census tracts relate to the ships associated with the onshore census tract having the same four-digit basic number. Suffixes in the range .80 through .98 usually identify census tracts that either were revised or were created during the 1990 census data collection activities. Some of these revisions may have resulted in census tracts that have extremely small land area and may have little or no population or housing. For data analysis, such a census tract can be summarized with an adjacent census tract.

CONGRESSIONAL DISTRICTS (CD's)

Congressional districts (CD's) are the 435 areas from which persons are elected to the U.S. House of Representatives. After the apportionment of congressional seats among the States, based on census population counts, each State is responsible for establishing CD's for the purpose of electing representatives. Each CD is to be as equal in population to all other CD's in the State as practicable, based on the decennial census counts.

The CD's that were in effect on January 1, 1990 were those of the 101st Congress. Data on the 101st Congress appear in an early 1990 census data product (Summary Tape File 1A). The CD's of the 101st Congress are the same as those in effect for the 102nd Congress. CD's of the 103rd Congress, reflecting redistricting based on the 1990 census, are summarized in later 1990 data products (STF's 1D and 3D, and 1990 CPH-4, *Population and Housing Characteristics for Congressional Districts of the 103rd Congress* printed reports).

COUNTY

The primary political divisions of most States are termed "counties." In Louisiana, these divisions are known as "parishes." In Alaska, which has no counties, the county equivalents are the organized "boroughs" and the "census areas" that are delineated for statistical purposes by the State of Alaska and the Census Bureau. In four States (Maryland, Missouri, Nevada, and Virginia), there are one or more cities that are independent of any county organization and thus constitute primary divisions of their States. These cities are known as "independent cities" and are treated as equivalent to counties for statistical purposes. That part of Yellowstone National Park in Montana is treated as a county equivalent. The District of Columbia has no primary divisions, and the entire area is considered equivalent to a county for statistical purposes.

Each county and county equivalent is assigned a three-digit FIPS code that is unique within State. These codes are assigned in alphabetical order of county or county equivalent within State, except for the independent cities, which follow the listing of counties.

COUNTY SUBDIVISION

County subdivisions are the primary subdivisions of counties and their equivalents for the reporting of decennial census data. They include census county divisions, census subareas, minor civil divisions, and unorganized territories.

Each county subdivision is assigned a three-digit census code in alphabetical order within county and a five-digit FIPS code in alphabetical order within State.

Census County Division (CCD)

Census county divisions (CCD's) are subdivisions of a county that were delineated by the Census Bureau, in cooperation with State officials and local census statistical

areas committees, for statistical purposes. CCD's were established in 21 States where there are no legally established minor civil divisions (MCD's), where the MCD's do not have governmental or administrative purposes, where the boundaries of the MCD's change frequently, and/or where the MCD's are not generally known to the public. CCD's have no legal functions, and are not governmental units.

The boundaries of CCD's usually are delineated to follow visible features, and in most cases coincide with census tract or block numbering area boundaries. The name of each CCD is based on a place, county, or well-known local name that identifies its location. CCD's have been established in the following 21 States: Alabama, Arizona, California, Colorado, Delaware, Florida, Georgia, Hawaii, Idaho, Kentucky, Montana, Nevada, New Mexico, Oklahoma, Oregon, South Carolina, Tennessee, Texas, Utah, Washington, and Wyoming. For the 1980 census, the county subdivisions recognized for Nevada were MCD's.

Census Subarea (Alaska)

Census subareas are statistical subdivisions of boroughs and census areas (county equivalents) in Alaska. Census subareas were delineated cooperatively by the State of Alaska and the Census Bureau. The census subareas, identified first in 1980, replaced the various types of subdivisions used in the 1970 census.

Minor Civil Division (MCD)

Minor civil divisions (MCD's) are the primary political or administrative divisions of a county. MCD's represent many different kinds of legal entities with a wide variety of governmental and/or administrative functions. MCD's are variously designated as American Indian reservations, assessment districts, boroughs, election districts, gores, grants, magisterial districts, parish governing authority districts, plantations, precincts, purchases, supervisors' districts, towns, and townships. In some States, all or some incorporated places are not located in any MCD and thus serve as MCD's in their own right. In other States, incorporated places are subordinate to (part of) the MCD's in which they are located, or the pattern is mixed—some incorporated places are independent of MCD's and others are subordinate to one or more MCD's.

The Census Bureau recognizes MCD's in the following 28 States: Arkansas, Connecticut, Illinois, Indiana, Iowa, Kansas, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Nebraska, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Pennsylvania, Rhode Island, South Dakota, Vermont, Virginia, West Virginia, and Wisconsin. The District of Columbia has no primary divisions, and the entire area is considered equivalent to an MCD for statistical purposes.

The MCD's in 12 selected States (Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin) also serve as general-purpose local governments. The Census Bureau presents data for these MCD's in all data products in which it provides data for places.

Unorganized Territory (unorg.)

In nine States (Arkansas, Iowa, Kansas, Louisiana, Maine, Minnesota, North Carolina, North Dakota, and South Dakota), some counties contain territory that is not included in an MCD recognized by the Census Bureau. Each separate area of unorganized territory in these States is recognized as one or more separate county subdivisions for census purposes. Each unorganized territory is given a descriptive name, followed by the designation "unorg."

GEOGRAPHIC CODE

Geographic codes are shown primarily on machine-readable data products, such as computer tape and compact disc-read only memory (CD-ROM), but also appear on other products such as microfiche; they also are shown on some census maps. Codes are identified as "census codes" only if there is also a Federal Information Processing Standards (FIPS) code for the same geographic entity. A code that is not identified as either "census" or "FIPS" is usually a census code for which there is no FIPS equivalent, or for which the Census Bureau does not use the FIPS code. The exceptions, which use only the FIPS code in census products, are county, congressional district, and metropolitan area (that is, metropolitan statistical area, consolidated metropolitan statistical area, and primary metropolitan statistical area).

Census Code

Census codes are assigned for a variety of geographic entities, including American Indian and Alaska Native area, census division, census region, county subdivision, place, State, urbanized area, and voting district. The structure, format, and meaning of census codes appear in the 1990 census *Geographic Identification Code Scheme*; in the data dictionary portion of the technical documentation for summary tape files, CD-ROM's, and microfiche.

Federal Information Processing Standards (FIPS) Code

Federal Information Processing Standards (FIPS) codes are assigned for a variety of geographic entities, including American Indian and Alaska Native area, congressional district, county, county subdivision, metropolitan area, place, and State. The structure, format, and meaning of FIPS

codes used in the census are shown in the 1990 census *Geographic Identification Code Scheme*; in the data dictionary portion of the technical documentation for summary tape files, CD-ROM's, and microfiche.

The objective of the FIPS codes is to improve the use of data resources of the Federal Government and avoid unnecessary duplication and incompatibilities in the collection, processing, and dissemination of data. More information about FIPS and FIPS code documentation is available from the National Technical Information Service, Springfield, VA 22161.

United States Postal Service (USPS) Code

United States Postal Service (USPS) codes for States are used in all 1990 data products. The codes are two-character alphabetic abbreviations. These codes are the same as the FIPS two-character alphabetic abbreviations.

GEOGRAPHIC PRESENTATION

Hierarchical Presentation

A hierarchical geographic presentation shows the geographic entities in a superior/subordinate structure in census products. This structure is derived from the legal, administrative, or areal relationships of the entities. The hierarchical structure is depicted in report tables by means of indentation, and is explained for machine-readable media in the discussion of file structure in the geographic coverage portion of the abstract in the technical documentation. An example of hierarchical presentation is the "standard census geographic hierarchy": block, within block group, within census tract or block numbering area, within place, within county subdivision, within county, within State, within division, within region, within the United States. Graphically, this is shown as:

```
United States
  Region
    Division
      State
        County
          County subdivision
            Place (or part)
              Census tract/block numbering area
                (or part)
                  Block group (or part)
                    Block
```

Inventory Presentation

An inventory presentation of geographic entities is one in which all entities of the same type are shown in alphabetical or code sequence, without reference to their hierarchical relationships. Generally, an inventory presentation shows totals for entities that may be split in a hierarchical presentation, such as place, census tract/

block numbering area, or block group. An example of a series of inventory presentations is: State, followed by all the counties in that State, followed by all the places in that State. Graphically, this is shown as:

State

County "A"

County "B"

County "C"

Place "X"

Place "Y"

Place "Z"

HISTORICAL COUNTS

Historical counts for total population and total housing units are shown in the 1990 CPH-2, *Population and Housing Unit Counts* report series. As in past censuses, the general rule for presenting historical data for States, counties, county subdivisions, and places is to show historical counts only for single, continually existing entities. Stated another way, if an entity existed for both the current and preceding censuses, the tables show counts for the preceding censuses. Included in this category are entities of the same type (county, county subdivision, place) even if they had changed their names. Also included are entities that merged, but only if the new entity retained the name of one of the merged entities. The historical counts shown are for each entity as it was bounded at each census.

In cases where an entity was formed since a preceding census, such as a newly incorporated place or a newly organized township, the symbol three dots "..." is shown for earlier censuses. The three-dot symbol also is shown for those parts of a place that have extended into an additional county or county subdivision through annexation or other revision of boundaries since the preceding census.

In a few cases, changes in the boundaries of county subdivisions caused a place to be split into two or more parts, or to be split differently than in the preceding census. If historical counts for the parts of the place as currently split did not appear in a preceding census, "(NA)" is shown for the place in each county subdivision; however, the historical population and housing unit counts of the place appear in tables that show the entire place. For counties, county subdivisions, and places formed since January 1, 1980, 1980 census population and housing unit counts in the 1990 territory are reported in the geographic change notes included in the "User Notes" text section of 1990 CPH-2, *Population and Housing Unit Counts*, and in the technical documentation of Summary Tape Files 1 and 3.

In some cases, population and housing unit counts for individual areas were revised since publication of the 1980 reports (indicated by the prefix "r"). In a number of tables of 1990 CPH-2, *Population and Housing Unit Counts*, 1980 counts are shown for aggregations of individual areas,

such as the number, population, and housing unit counts of places in size groups, or urban and rural distributions. Revisions of population and housing unit counts for individual areas were not applied to the various aggregations. Therefore, it may not be possible to determine the individual areas in a given aggregation using the historical counts; conversely, the sum of the counts shown for individual areas may not agree with the aggregation.

INTERNAL POINT

An internal point is a set of geographic coordinates (latitude and longitude) that is located within a specified geographic entity. A single point is identified for each entity; for many entities, this point represents the approximate geographic center of that entity. If the shape of the entity caused this point to be located outside the boundaries of the entity, it is relocated from the center so that it is within the entity. If the internal point for a block falls in a water area, it is relocated to a land area within the block. On machine-readable products, internal points are shown to six decimal places; the decimal point is implied.

METROPOLITAN AREA (MA)

The general concept of a metropolitan area (MA) is one of a large population nucleus, together with adjacent communities that have a high degree of economic and social integration with that nucleus. Some MA's are defined around two or more nuclei.

The MA classification is a statistical standard, developed for use by Federal agencies in the production, analysis, and publication of data on MA's. The MA's are designated and defined by the Federal Office of Management and Budget, following a set of official published standards. These standards were developed by the inter-agency Federal Executive Committee on Metropolitan Areas, with the aim of producing definitions that are as consistent as possible for all MA's nationwide.

Each MA must contain either a place with a minimum population of 50,000 or a Census Bureau-defined urbanized area and a total MA population of at least 100,000 (75,000 in New England). An MA comprises one or more central counties. An MA also may include one or more outlying counties that have close economic and social relationships with the central county. An outlying county must have a specified level of commuting to the central counties and also must meet certain standards regarding metropolitan character, such as population density, urban population, and population growth. In New England, MA's are composed of cities and towns rather than whole counties.

The territory, population, and housing units in MA's are referred to as "metropolitan." The metropolitan category is subdivided into "inside central city" and "outside central city." The territory, population, and housing units located outside MA's are referred to as "nonmetropolitan." The

metropolitan and nonmetropolitan classification cuts across the other hierarchies; for example, there is generally both urban and rural territory within both metropolitan and nonmetropolitan areas.

To meet the needs of various users, the standards provide for a flexible structure of metropolitan definitions that classify an MA either as a metropolitan statistical area (MSA) or as a consolidated metropolitan statistical area (CMSA) that is divided into primary metropolitan statistical areas (PMSA's). Documentation of the MA standards and how they are applied is available from the Secretary, Federal Executive Committee on Metropolitan Areas, Population Division, U.S. Bureau of the Census, Washington, DC 20233.

Central City

In each MSA and CMSA, the largest place and, in some cases, additional places are designated as "central cities" under the official standards. A few PMSA's do not have central cities. The largest central city and, in some cases, up to two additional central cities are included in the title of the MA; there also are central cities that are not included in an MA title. An MA central city does not include any part of that city that extends outside the MA boundary.

Consolidated and Primary Metropolitan Statistical Area (CMSA and PMSA)

If an area that qualifies as an MA has more than one million persons, primary metropolitan statistical areas (PMSA's) may be defined within it. PMSA's consist of a large urbanized county or cluster of counties that demonstrates very strong internal economic and social links, in addition to close ties to other portions of the larger area. When PMSA's are established, the larger area of which they are component parts is designated a consolidated metropolitan statistical area (CMSA).

Metropolitan Statistical Area (MSA)

Metropolitan statistical areas (MSA's) are relatively free-standing MA's and are not closely associated with other MA's. These areas typically are surrounded by nonmetropolitan counties.

Metropolitan Area Title and Code

The title of an MSA contains the name of its largest central city and up to two additional city names, provided that the additional places meet specified levels of population, employment, and commuting. Generally, a city with a population of 250,000 or more is in the title, regardless of other criteria.

The title of a PMSA may contain up to three place names, as determined above, or up to three county names, sequenced in order of population. A CMSA title also may include up to three names, the first of which generally is

the most populous central city in the area. The second name may be the first city or county name in the most populous remaining PMSA; the third name may be the first city or county name in the next most populous PMSA. A regional designation may be substituted for the second and/or third names in a CMSA title if such a designation is supported by local opinion and is deemed to be unambiguous and suitable by the Office of Management and Budget.

The titles for all MA's also contain the name of each State in which the area is located. Each metropolitan area is assigned a four-digit FIPS code, in alphabetical order nationwide. If the fourth digit of the code is a "2," it identifies a CMSA. Additionally, there is a separate set of two-digit codes for CMSA's, also assigned alphabetically.

OUTLYING AREAS OF THE UNITED STATES

The Census Bureau treats the outlying areas as the statistical equivalents of States for the 1990 census. The outlying areas are American Samoa, Guam, the Commonwealth of the Northern Mariana Islands (Northern Mariana Islands), Republic of Palau (Palau), Puerto Rico, and the Virgin Islands of the United States (Virgin Islands). Geographic definitions specific to each outlying area are shown in appendix A of the text in the data products for each area.

PLACE

Places, for the reporting of decennial census data, include census designated places and incorporated places. Each place is assigned a four-digit census code that is unique within State. Each place is also assigned a five-digit FIPS code that is unique within State. Both the census and FIPS codes are assigned based on alphabetical order within State. Consolidated cities (see below) are assigned a one-character alphabetical census code that is unique nationwide and a five-digit FIPS code that is unique within State.

Census Designated Place (CDP)

Census designated places (CDP's) are delineated for the decennial census as the statistical counterparts of incorporated places. CDP's comprise densely settled concentrations of population that are identifiable by name, but are not legally incorporated places. Their boundaries, which usually coincide with visible features or the boundary of an adjacent incorporated place, have no legal status, nor do these places have officials elected to serve traditional municipal functions. CDP boundaries may change with changes in the settlement pattern; a CDP with the same name as in previous censuses does not necessarily have the same boundaries.

Beginning with the 1950 census, the Census Bureau, in cooperation with State agencies and local census statistical areas committees, has identified and delineated boundaries for CDP's. In the 1990 census, the name of each such place is followed by "CDP." In the 1980 census, "(CDP)" was used; in 1970, 1960, and 1950 censuses, these places were identified by "(U)," meaning "unincorporated place."

To qualify as a CDP for the 1990 census, an unincorporated community must have met the following criteria:

1. In all States except Alaska and Hawaii, the Census Bureau uses three population size criteria to designate a CDP. These criteria are:
 - a. 1,000 or more persons if outside the boundaries of an urbanized area (UA) delineated for the 1980 census or a subsequent special census.
 - b. 2,500 or more persons if inside the boundaries of a UA delineated for the 1980 census or a subsequent special census.
 - c. 250 or more persons if outside the boundaries of a UA delineated for the 1980 census or a subsequent special census, and within the official boundaries of an American Indian reservation recognized for the 1990 census.
2. In Alaska, 25 or more persons if outside a UA, and 2,500 or more persons if inside a UA delineated for the 1980 census or a subsequent special census.
3. In Hawaii, 300 or more persons, regardless of whether the community is inside or outside a UA.

For the 1990 census, CDP's qualified on the basis of the population counts prepared for the 1990 Postcensus Local Review Program. Because these counts were subject to change, a few CDP's may have final population counts lower than the minimums shown above.

Hawaii is the only State with no incorporated places recognized by the Bureau of the Census. All places shown for Hawaii in the data products are CDP's. By agreement with the State of Hawaii, the Census Bureau does not show data separately for the city of Honolulu, which is coextensive with Honolulu County.

Consolidated City

A consolidated government is a unit of local government for which the functions of an incorporated place and its county or minor civil division (MCD) have merged. The legal aspects of this action may result in both the primary incorporated place and the county or MCD continuing to exist as legal entities, even though the county or MCD performs few or no governmental functions and has few or no elected officials. Where this occurs, and where one or more other incorporated places in the county or MCD

continue to function as separate governments, even though they have been included in the consolidated government, the primary incorporated place is referred to as a "consolidated city."

The data presentation for consolidated cities varies depending upon the geographic presentation. In hierarchical presentations, consolidated cities are not shown. These presentations include the semi-independent places and the "consolidated city (remainder)." Where the consolidated city is coextensive with a county or county subdivision, the data shown for those areas in hierarchical presentations are equivalent to those for the consolidated government.

For inventory geographic presentations, the consolidated city appears at the end of the listing of places. The data for the consolidated city include places that are part of the consolidated city. The "consolidated city (remainder)" is the portion of the consolidated government minus the semi-independent places, and is shown in alphabetical sequence with other places.

In summary presentations by size of place, the consolidated city is not included. The places semi-independent of consolidated cities are categorized by their size, as is the "consolidated city (remainder)."

Each consolidated city is assigned a one-character alphabetic census code. Each consolidated city also is assigned a five-digit FIPS code that is unique within State. The semi-independent places and the "consolidated city (remainder)" are assigned a four-digit census code and a five-digit FIPS place code that are unique within State. Both the census and FIPS codes are assigned based on alphabetical order within State.

Incorporated Place

Incorporated places recognized in 1990 census data products are those reported to the Census Bureau as legally in existence on January 1, 1990 under the laws of their respective States as cities, boroughs, towns, and villages, with the following exceptions: the towns in the New England States, New York, and Wisconsin, and the boroughs in New York are recognized as minor civil divisions for census purposes; the boroughs in Alaska are county equivalents.

POPULATION OR HOUSING UNIT DENSITY

Population or housing unit density is computed by dividing the total population or housing units of a geographic unit (for example, United States, State, county, place) by its land area measured in square kilometers or square miles. Density is expressed as both "persons (or housing units) per square kilometer" and "persons (or housing units) per square mile" of land area in 1990 census printed reports.

STATE

States are the primary governmental divisions of the United States. The District of Columbia is treated as a statistical equivalent of a State for census purposes. The four census regions, nine census divisions, and their component States are shown under "CENSUS REGION AND CENSUS DIVISION" in this appendix.

The Census Bureau treats the outlying areas as State equivalents for the 1990 census. The outlying areas are American Samoa, Guam, the Northern Mariana Islands, Palau, Puerto Rico, and the Virgin Islands of the United States. Geographic definitions specific to each outlying area are shown in appendix A in the data products for each area.

Each State and equivalent is assigned a two-digit numeric Federal Information Processing Standards (FIPS) code in alphabetical order by State name, followed by the outlying area names. Each State and equivalent area also is assigned a two-digit census code. This code is assigned on the basis of the geographic sequence of each State within each census division; the first digit of the code is the code for the respective division. Puerto Rico, the Virgin Islands, and the outlying areas of the Pacific are assigned "0" as the division code. Each State and equivalent area also is assigned the two-letter FIPS/United States Postal Service (USPS) code.

In 12 selected States (Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin), the minor civil divisions also serve as general-purpose local governments. The Census Bureau presents data for these minor civil divisions in all data products in which it provides data for places.

TIGER

TIGER is an acronym for the new digital (computer-readable) geographic data base that automates the mapping and related geographic activities required to support the Census Bureau's census and survey programs. The Census Bureau developed the Topologically Integrated Geographic Encoding and Referencing (TIGER) System to automate the geographic support processes needed to meet the major geographic needs of the 1990 census: producing the cartographic products to support data collection and map publication, providing the geographic structure for tabulation and publication of the collected data, assigning residential and employer addresses to their geographic location and relating those locations to the Census Bureau's geographic units, and so forth. The content of the TIGER data base is made available to the public through a variety of "TIGER Extract" files that may be obtained from the Data User Services Division, U.S. Bureau of the Census, Washington, DC 20233.

UNITED STATES

The United States comprises the 50 States and the District of Columbia. In addition, the Census Bureau treats

the outlying areas as statistical equivalents of States for the 1990 census. The outlying areas include American Samoa, Guam, the Northern Mariana Islands, Palau, Puerto Rico, and the Virgin Islands.

URBAN AND RURAL

The Census Bureau defines "urban" for the 1990 census as comprising all territory, population, and housing units in urbanized areas and in places of 2,500 or more persons outside urbanized areas. More specifically, "urban" consists of territory, persons, and housing units in:

1. Places of 2,500 or more persons incorporated as cities, villages, boroughs (except in Alaska and New York), and towns (except in the six New England States, New York, and Wisconsin), but excluding the rural portions of "extended cities."
2. Census designated places of 2,500 or more persons.
3. Other territory, incorporated or unincorporated, included in urbanized areas.

Territory, population, and housing units not classified as urban constitute "rural." In the 100-percent data products, "rural" is divided into "places of less than 2,500" and "not in places." The "not in places" category comprises "rural" outside incorporated and census designated places and the rural portions of extended cities. In many data products, the term "other rural" is used; "other rural" is a residual category specific to the classification of the rural in each data product.

In the sample data products, rural population and housing units are subdivided into "rural farm" and "rural nonfarm." "Rural farm" comprises all rural households and housing units on farms (places from which \$1,000 or more of agricultural products were sold in 1989); "rural nonfarm" comprises the remaining rural.

The urban and rural classification cuts across the other hierarchies; for example, there is generally both urban and rural territory within both metropolitan and nonmetropolitan areas.

In censuses prior to 1950, "urban" comprised all territory, persons, and housing units in incorporated places of 2,500 or more persons, and in areas (usually minor civil divisions) classified as urban under special rules relating to population size and density. The definition of urban that restricted itself to incorporated places having 2,500 or more persons excluded many large, densely settled areas merely because they were not incorporated. Prior to the 1950 census, the Census Bureau attempted to avoid some of the more obvious omissions by classifying selected areas as "urban under special rules." Even with these rules, however, many large, closely built-up areas were excluded from the urban category.

To improve its measure of urban territory, population, and housing units, the Census Bureau adopted the concept of the urbanized area and delineated boundaries for

unincorporated places (now, census designated places) for the 1950 census. Urban was defined as territory, persons, and housing units in urbanized areas and, outside urbanized areas, in all places, incorporated or unincorporated, that had 2,500 or more persons. With the following three exceptions, the 1950 census definition of urban has continued substantially unchanged. First, in the 1960 census (but not in the 1970, 1980, or 1990 censuses), certain towns in the New England States, townships in New Jersey and Pennsylvania, and Arlington County, Virginia, were designated as urban. However, most of these "special rule" areas would have been classified as urban anyway because they were included in an urbanized area or in an unincorporated place of 2,500 or more persons. Second, "extended cities" were identified for the 1970, 1980, and 1990 censuses. Extended cities primarily affect the figures for urban and rural territory (area), but have very little effect on the urban and rural population and housing units at the national and State levels—although for some individual counties and urbanized areas, the effects have been more evident. Third, changes since the 1970 census in the criteria for defining urbanized areas have permitted these areas to be defined around smaller centers.

Documentation of the urbanized area and extended city criteria is available from the Chief, Geography Division, U.S. Bureau of the Census, Washington, DC 20233.

Extended City

Since the 1960 census, there has been a trend in some States toward the extension of city boundaries to include territory that is essentially rural in character. The classification of all the population and living quarters of such places as urban would include in the urban designation territory, persons, and housing units whose environment is primarily rural. For the 1970, 1980, and 1990 censuses, the Census Bureau identified as rural such territory and its population and housing units for each extended city whose closely settled area was located in an urbanized area. For the 1990 census, this classification also has been applied to certain places outside urbanized areas.

In summary presentations by size of place, the urban portion of an extended city is classified by the population of the entire place; the rural portion is included in "other rural."

URBANIZED AREA (UA)

The Census Bureau delineates urbanized areas (UA's) to provide a better separation of urban and rural territory, population, and housing in the vicinity of large places. A UA comprises one or more places ("central place") and the adjacent densely settled surrounding territory ("urban fringe") that together have a minimum of 50,000 persons. The urban fringe generally consists of contiguous territory having a density of at least 1,000 persons per square mile. The urban fringe also includes outlying territory of such

density if it was connected to the core of the contiguous area by road and is within 1 1/2 road miles of that core, or within 5 road miles of the core but separated by water or other undevelopable territory. Other territory with a population density of fewer than 1,000 people per square mile is included in the urban fringe if it eliminates an enclave or closes an indentation in the boundary of the urbanized area. The population density is determined by (1) outside of a place, one or more contiguous census blocks with a population density of at least 1,000 persons per square mile or (2) inclusion of a place containing census blocks that have at least 50 percent of the population of the place and a density of at least 1,000 persons per square mile. The complete criteria are available from the Chief, Geography Division, U.S. Bureau of the Census, Washington, DC 20233.

Urbanized Area Central Place

One or more central places function as the dominant centers of each UA. The identification of a UA central place permits the comparison of this dominant center with the remaining territory in the UA. There is no limit on the number of central places, and not all central places are necessarily included in the UA title. UA central places include:

1. Each place entirely (or partially, if the place is an extended city) within the UA that is a central city of a metropolitan area (MA).
2. If the UA does not contain an MA central city or is located outside of an MA, the central place(s) is determined by population size.

Urbanized Area Title and Code

The title of a UA identifies those places that are most important within the UA; it links the UA to the encompassing MA, where appropriate. If a single MA includes most of the UA, the title and code of the UA generally are the same as the title and code of the MA. If the UA is not mostly included in a single MA, if it does not include any place that is a central city of the encompassing MA, or if it is not located in an MA, the Census Bureau uses the population size of the included places, with a preference for incorporated places, to determine the UA title. The name of each State in which the UA is located also is in each UA title.

The numeric code used to identify each UA is the same as the code for the mostly encompassing MA (including CMSA and PMSA). If MA title cities represent multiple UA's, or the UA title city does not correspond to the first name of an MA title, the Census Bureau assigns a code based on the alphabetical sequence of the UA title in relationship to the other UA and MA titles.

VOTING DISTRICT (VTD)

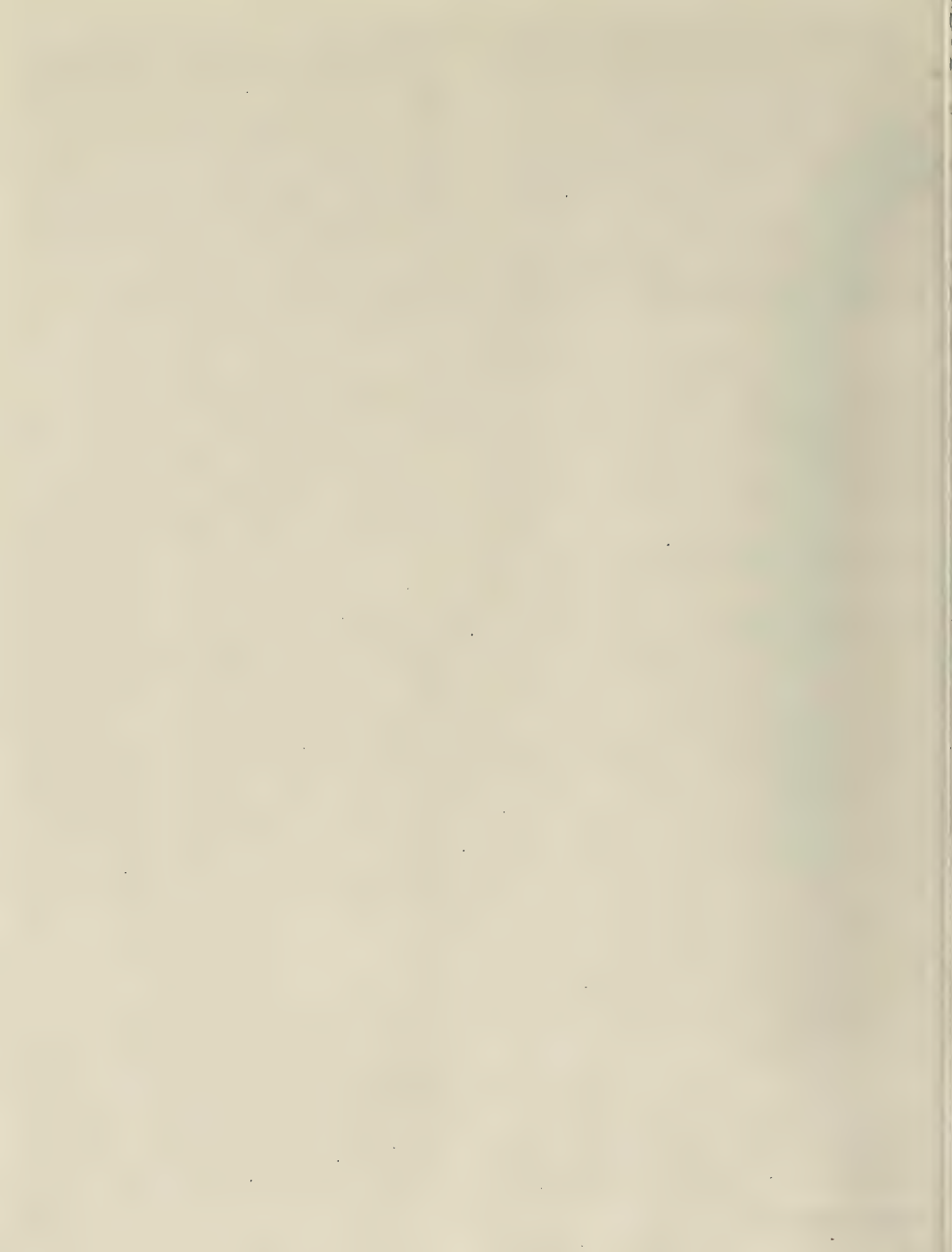
A voting district (VTD) is any of a variety of types of areas (for example, election districts, precincts, wards, legislative districts) established by State and local governments for purposes of elections. For census purposes,

each State participating in Phase 2 of the 1990 Census Redistricting Data Program outlined the boundaries of VTD's around groups of whole census blocks on census maps. The entities identified as VTD's are not necessarily those legally or currently established. Also, to meet the "whole block" criterion, a State may have had to adjust VTD boundaries to nearby block boundaries. Therefore, the VTD's shown on the 1990 census tapes, listings, and maps may not represent the actual VTD's in effect at the time of the census. In the 1980 census, VTD's were referred to as "election precincts."

Each VTD is assigned a four-character alphanumeric code that is unique within each county. The code "ZZZZ" is assigned to nonparticipating areas; the Census Bureau reports data for areas coded "ZZZZ."

ZIP CODE®

ZIP Codes are administrative units established by the United States Postal Service (USPS) for the distribution of mail. ZIP Codes serve addresses for the most efficient delivery of mail, and therefore generally do not respect political or census statistical area boundaries. ZIP Codes usually do not have clearly identifiable boundaries, often serve a continually changing area, are changed periodically to meet postal requirements, and do not cover all the land area of the United States. ZIP Codes are identified by five-digit codes assigned by the USPS. The first three digits identify a major city or sectional distribution center, and the last two digits generally signify a specific post office's delivery area or point. For the 1990 census, ZIP Code data are tabulated for the five-digit codes in STF 3B.



APPENDIX B.

Definitions of Subject Characteristics

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POPULATION CHARACTERISTICS

AGE

The data on age were derived from answers to questionnaire item 5, which was asked of all persons. The age classification is based on the age of the person in complete years as of April 1, 1990. The age response in question 5a was used normally to represent a person's age. However, when the age response was unacceptable or unavailable, a person's age was derived from an acceptable year-of-birth response in question 5b.

Data on age are used to determine the applicability of other questions for a person and to classify other characteristics in census tabulations. Age data are needed to interpret most social and economic characteristics used to plan and examine many programs and policies. Therefore, age is tabulated by single years of age and by many different groupings, such as 5-year age groups.

Some tabulations are shown by the age of the householder. These data were derived from the age responses for each householder. (For more information on householder, see the discussion under "Household Type and Relationship.")

Median Age—This measure divides the age distribution into two equal parts: one-half of the cases falling below the median value and one-half above the value. Generally, median age is computed on the basis of more detailed age intervals than are shown in some census publications; thus, a median based on a less detailed distribution may differ slightly from a corresponding median for the same population based on a more detailed distribution. (For more information on medians, see the discussion under "Derived Measures.")

Limitation of the Data—Counts in 1970 and 1980 for persons 100 years old and over were substantially overstated. Improvements were made in the questionnaire design, in the allocation procedures, and to the respondent instruction guide to attempt to minimize this problem for the 1990 census.

Review of detailed 1990 census information indicated that respondents tended to provide their age as of the date of completion of the questionnaire, not their age as of April 1, 1990. In addition, there may have been a tendency for respondents to round their age up if they were close to having a birthday. It is likely that approximately 10 percent of persons in most age groups are actually 1 year younger. For most single years of age, the misstatements are largely offsetting. The problem is most pronounced at age 0 because persons lost to age 1 may not have been fully offset by the inclusion of babies born after April 1, 1990, and because there may have been more rounding up to age 1 to avoid reporting age as 0 years. (Age in complete months was not collected for infants under age 1.)

The reporting of age 1 year older than age on April 1, 1990, is likely to have been greater in areas where the census data were collected later in 1990. The magnitude of this problem was much less in the three previous censuses where age was typically derived from respondent data on year of birth and quarter of birth. (For more information on the design of the age question, see the section below that discusses "Comparability.")

Comparability—Age data have been collected in every census. For the first time since 1950, the 1990 data are not available by quarter year of age. This change was made so that coded information could be obtained for both age and year of birth. In each census since 1940, the age of a person was assigned when it was not reported. In censuses before 1940, with the exception of 1880, persons of unknown age were shown as a separate category. Since 1960, assignment of unknown age has been performed by a general procedure described as "imputation." The specific procedures for imputing age have been different in each census. (For more information on imputation, see Appendix C, Accuracy of the Data.)

ANCESTRY

The data on ancestry were derived from answers to questionnaire item 13, which was asked of a sample of persons. The question was based on self-identification; the data on ancestry represent self-classification by people according to the ancestry group(s) with which they most closely identify. Ancestry refers to a person's ethnic origin or descent, "roots," or heritage or the place of birth of the person or the person's parents or ancestors before their arrival in the United States. Some ethnic identities, such as "Egyptian" or "Polish" can be traced to geographic areas outside the United States, while other ethnicities such as "Pennsylvania Dutch" or "Cajun" evolved in the United States.

The intent of the ancestry question was not to measure the degree of attachment the respondent had to a particular ethnicity. For example, a response of "Irish" might reflect total involvement in an "Irish" community or only a memory of ancestors several generations removed from the individual.

The Census Bureau coded the responses through an automated review, edit, and coding operation. The open-ended write-in ancestry item was coded by subject-matter specialists into a numeric representation using a code list containing over 1,000 categories. The 1990 code list reflects the results of the Census Bureau's own research and consultations with many ethnic experts. Many decisions were made to determine the classification of responses. These decisions affected the grouping of the tabulated data. For example, the "Assyrian" category includes both responses of "Assyrian" and "Chaldean."

The ancestry question allowed respondents to report one or more ancestry groups. While a large number of respondents listed a single ancestry, the majority of answers included more than one ethnic entry. Generally, only the first two responses reported were coded in 1990. If a response was in terms of a dual ancestry, for example, Irish-English, the person was assigned two codes, in this case one for Irish and another for English.

However, in certain cases, multiple responses such as "French Canadian," "Scotch-Irish," "Greek Cypriote," and "Black Dutch" were assigned a single code reflecting their status as unique groups. If a person reported one of these unique groups in addition to another group, for example, "Scotch-Irish English," resulting in three terms, that person received one code for the unique group ("Scotch-Irish") and another one for the remaining group ("English"). If a person reported "English Irish French," only English and Irish were coded. Certain combinations of ancestries where the ancestry group is a part of another, such as "German-Bavarian," the responses were coded as a single ancestry using the smaller group ("Bavarian"). Also, responses such as "Polish-American" or "Italian-American" were coded and tabulated as a single entry ("Polish" or "Italian").

The Census Bureau accepted "American" as a unique ethnicity if it was given alone, with an ambiguous response, or with State names. If the respondent listed any other ethnic identity such as "Italian American," generally the "American" portion of the response was not coded. However, distinct groups such as "American Indian," "Mexican American," and "African American" were coded and identified separately because they represented groups who considered themselves different from those who reported as "Indian," "Mexican," or "African," respectively.

In all tabulations, when respondents provided an unacceptable ethnic identity (for example, an uncodeable or unintelligible response such as "multi-national," "adopted," or "I have no idea"), the answer was included in "Ancestry not reported."

The tabulations on ancestry are presented using two types of data presentations—one used total persons as the base, and the other used total responses as the base. The following are categories shown in the two data presentations:

Presentation Based on Persons:

Single Ancestries Reported—Includes all persons who reported only one ethnic group. Included in this

category are persons with multiple-term responses such as "Scotch-Irish" who are assigned a single code.

Multiple Ancestries Reported—Includes all persons who reported more than one group and were assigned two ancestry codes.

Ancestry Unclassified—Includes all persons who provided a response that could not be assigned an ancestry code because they provided nonsensical entries or religious responses.

Presentations Based on Responses:

Total Ancestries Reported—Includes the total number of ancestries reported and coded. If a person reported a multiple ancestry such as "French Danish," that response was counted twice in the tabulations—once in the "French" category and again in the "Danish" category. Thus, the sum of the counts in this type of presentation is not the total population but the total of all responses.

First Ancestry Reported—Includes the first response of all persons who reported at least one codeable entry. For example, in this category, the count for "Danish" would include all those who reported only Danish and those who reported Danish first and then some other group.

Second Ancestry Reported—Includes the second response of all persons who reported a multiple ancestry. Thus, the count for "Danish" in this category includes all persons who reported Danish as the second response, regardless of the first response provided.

The Census Bureau identified hundreds of ethnic groups in the 1990 census. However, it was impossible to show information for every group in all census tabulations because of space constraints. Publications such as the 1990 CP-2, *Social and Economic Characteristics* and the 1990 CPH-3, *Population and Housing Characteristics for Census Tracts and Block Numbering Areas* reports show a limited number of groups based on the number reported and the advice received from experts. A more complete distribution of groups is presented in the 1990 Summary Tape File 4, supplementary reports, and a special subject report on ancestry. In addition, groups identified specifically in the questions on race and Hispanic origin (for example, Japanese, Laotian, Mexican, Cuban, and Spaniard), in general, are not shown separately in ancestry tabulations.

Limitation of the Data—Although some experts consider religious affiliation a component of ethnic identity, the ancestry question was not designed to collect any information concerning religion. The Bureau of the Census is prohibited from collecting information on religion. Thus, if a religion was given as an answer to the ancestry question, it was coded as an "Other" response.

Comparability—A question on ancestry was first asked in the 1980 census. Although there were no comparable data prior to the 1980 census, related information on ethnicity was collected through questions on parental birthplace, own birthplace, and language which were included in previous censuses. Unlike other census questions, there was no imputation for nonresponse to the ancestry question.

In 1990, respondents were allowed to report more than one ancestry group; however, only the first two ancestry groups identified were coded. In 1980, the Census Bureau attempted to code a third ancestry for selected triple-ancestry responses.

New categories such as "Arab" and "West Indian" were added to the 1990 question to meet important data needs. The "West Indian" category excluded "Hispanic" groups such as "Puerto Rican" and "Cuban" that were identified primarily through the question on Hispanic origin. In 1990, the ancestry group, "American" is recognized and tabulated as a unique ethnicity. In 1980, "American" was tabulated but included under the category "Ancestry not specified."

A major improvement in the 1990 census was the use of an automated coding system for ancestry responses. The automated coding system used in the 1990 census greatly reduced the potential for error associated with a clerical review. Specialists with a thorough knowledge of the subject matter reviewed, edited, coded, and resolved inconsistent or incomplete responses.

CITIZENSHIP

The data on citizenship were derived from answers to questionnaire item 9, which was asked of a sample of persons.

Citizen—Persons who indicated that they were native-born and foreign-born persons who indicated that they have become naturalized. (For more information on native and foreign born, see the discussion under "Place of Birth.")

There are four categories of citizenship: (1) born in the United States, (2) born in Puerto Rico, Guam, the Virgin Islands of the United States, or the Commonwealth of the Northern Mariana Islands, (3) born abroad of American parents, and (4) citizen by naturalization.

Naturalized Citizen—Foreign-born persons who had completed the naturalization process at the time of the census and upon whom the rights of citizenship had been conferred.

Not a Citizen—Foreign-born persons who were not citizens, including persons who had begun but not completed the naturalization process at the time of the census.

Limitation of the Data—Evaluation studies completed after previous censuses indicated that some persons may have reported themselves as citizens although they had not yet attained the status.

Comparability—Similar questions on citizenship were asked in the censuses of 1820, 1830, 1870, 1890 through 1950, 1970, and 1980. The 1980 question was asked of a sample of the foreign-born population. In 1990, both native and foreign-born persons who received the long-form questionnaire were asked to respond to the citizenship question.

EDUCATIONAL ATTAINMENT

Data on educational attainment were derived from answers to questionnaire item 12, which was asked of a sample of persons. Data are tabulated as attainment for persons 15 years old and over. Persons are classified according to the highest level of school completed or the highest degree received. The question included instructions to report the level of the previous grade attended or the highest degree received for persons currently enrolled in school. The question included response categories which allowed persons to report completing the 12th grade without receiving a high school diploma, and which instructed respondents to report as "high school graduate(s)"—persons who received either a high school diploma or the equivalent, for example, passed the Test of General Educational Development (G.E.D.), and did not attend college. (On the Military Census Report questionnaire, the lowest response category was "Less than 9th grade.")

Instructions included in the 1990 respondent instruction guide, which was mailed with the census questionnaire, further specified that schooling completed in foreign or ungraded school systems should be reported as the equivalent level of schooling in the regular American system; that vocational certificates or diplomas from vocational, trade, or business schools or colleges were not to be reported unless they were college level degrees; and that honorary degrees were not to be reported. The instructions gave "medicine, dentistry, chiropractic, optometry, osteopathic medicine, pharmacy, podiatry, veterinary medicine, law, and theology" as examples of professional school degrees, and specifically excluded "barber school, cosmetology, or other training for a specific trade" from the professional school category. The order in which they were listed suggested that doctorate degrees were "higher" than professional school degrees, which were "higher" than master's degrees.

Persons who did not report educational attainment were assigned the attainment of a person of the same age, race or Spanish origin, and sex who resided in the same or a nearby area. Persons who filled more than one circle were edited to the highest level or degree reported.

High School Graduate or Higher—Includes persons whose highest degree was a high school diploma or

its equivalent, persons who attended college or professional school, and persons who received a college, university, or professional degree. Persons who reported completing the 12th grade but not receiving a diploma are not included.

Not Enrolled, Not High School Graduate—Includes persons of compulsory school attendance age or above who were not enrolled in school and were not above high school graduates; these persons may be taken to be "high school dropouts." There is no restriction on when they "dropped out" of school, and they may have never attended high school.

In prior censuses, "Median school years completed" was used as a summary measure of educational attainment. In 1990, the median can only be calculated for groups of which less than half the members have attended college. "Percent high school graduate or higher" and "Percent bachelor's degree or higher" are summary measures which can be calculated from the present data and offer quite readily interpretable measures of differences between population subgroups. To make comparisons over time, "Percent high school graduate or higher" can be calculated and "Percent bachelor's degree or higher" can be approximated with data from previous censuses.

Comparability—From 1840 to 1930, the census measured educational attainment by means of a basic literacy question. In 1940, a single question was asked on highest grade of school completed. In the censuses of 1950 through 1980, a two-part question asking highest grade of school attended and whether that grade was finished was used to construct highest grade or year of school completed. For persons who have not attended college, the response categories in the 1990 educational attainment question should produce data which are comparable to data on highest grade completed from earlier censuses.

The response categories for persons who have attended college were modified from earlier censuses because there was some ambiguity in interpreting responses in terms of the number of years of college completed. For instance, it was not clear whether "completed the fourth year of college," "completed the senior year of college," and "college graduate" were synonymous. Research conducted shortly before the census suggests that these terms were more distinct in 1990 than in earlier decades, and this change may have threatened the ability to estimate the number of "college graduates" from the number of persons reported as having completed the fourth or a higher year of college. It was even more difficult to make inferences about post-baccalaureate degrees and "Associate" degrees from highest year of college completed. Thus, comparisons of post-secondary educational attainment in this and earlier censuses should be made with great caution.

In the 1960 and subsequent censuses, persons for whom educational attainment was not reported were assigned the same attainment level as a similar person whose

residence was in the same or a nearby area. In the 1940 and 1950 censuses, persons for whom educational attainment was not reported were not allocated.

EMPLOYMENT STATUS

The data on employment status were derived from answers to questionnaire items 21, 25, and 26, which were asked of a sample of persons. The series of questions on employment status was asked of all persons 15 years old and over and was designed to identify, in this sequence: (1) persons who worked at any time during the reference week; (2) persons who did not work during the reference week but who had jobs or businesses from which they were temporarily absent (excluding layoff); (3) persons on layoff; and (4) persons who did not work during the reference week, but who were looking for work during the last four weeks and were available for work during the reference week. (For more information, see the discussion under "Reference Week.")

The employment status data shown in this and other 1990 census tabulations relate to persons 16 years old and over. Some tabulations showing employment status, however, include persons 15 years old. By definition, these persons are classified as "Not in Labor Force." In the 1940, 1950, and 1960 censuses, employment status data were presented for persons 14 years old and over. The change in the universe was made in 1970 to agree with the official measurement of the labor force as revised in January 1967 by the U.S. Department of Labor. The 1970 census was the last to show employment data for persons 14 and 15 years old.

Employed—All civilians 16 years old and over who were either (1) "at work"—those who did any work at all during the reference week as paid employees, worked in their own business or profession, worked on their own farm, or worked 15 hours or more as unpaid workers on a family farm or in a family business; or (2) were "with a job but not at work"—those who did not work during the reference week but had jobs or businesses from which they were temporarily absent due to illness, bad weather, industrial dispute, vacation, or other personal reasons. Excluded from the employed are persons whose only activity consisted of work around the house or unpaid volunteer work for religious, charitable, and similar organizations; also excluded are persons on active duty in the United States Armed Forces.

Unemployed—All civilians 16 years old and over are classified as unemployed if they (1) were neither "at work" nor "with a job but not at work" during the reference week, and (2) were looking for work during the last 4 weeks, and (3) were available to accept a job. Also included as unemployed are civilians who did not work at all during the reference week and were waiting to be called back to a job from which they had been laid off. Examples of job seeking activities are:

- Registering at a public or private employment office
- Meeting with prospective employers
- Investigating possibilities for starting a professional practice or opening a business
- Placing or answering advertisements
- Writing letters of application
- Being on a union or professional register

Civilian Labor Force—Consists of persons classified as employed or unemployed in accordance with the criteria described above.

Experienced Unemployed—These are unemployed persons who have worked at any time in the past.

Experienced Civilian Labor Force—Consists of the employed and the experienced unemployed.

Labor Force—All persons classified in the civilian labor force plus members of the U.S. Armed Forces (persons on active duty with the United States Army, Air Force, Navy, Marine Corps, or Coast Guard).

Not in Labor Force—All persons 16 years old and over who are not classified as members of the labor force. This category consists mainly of students, housewives, retired workers, seasonal workers enumerated in an *off* season who were not looking for work, institutionalized persons, and persons doing only incidental unpaid family work (less than 15 hours during the reference week).

Worker—This term appears in connection with several subjects: journey-to-work items, class of worker, weeks worked in 1989, and number of workers in family in 1989. Its meaning varies and, therefore, should be determined in each case by referring to the definition of the subject in which it appears.

Actual Hours Worked Last Week—All persons who reported working during the reference week were asked to report in questionnaire item 21b the number of hours that they worked. The statistics on hours worked pertain to the number of hours actually worked at all jobs, and do not necessarily reflect the number of hours typically or usually worked or the scheduled number of hours. The concept of "actual hours" differs from that of "usual hours" described below. The number of persons who worked only a small number of hours is probably understated since such persons sometimes consider themselves as not working. Respondents were asked to include overtime or extra hours worked, but to exclude lunch hours, sick leave, and vacation leave.

Limitation of the Data—The census may understate the number of employed persons because persons who have irregular, casual, or unstructured jobs sometimes report themselves as not working. The number of employed persons "at work" is probably overstated in the census (and conversely, the number of employed "with a job, but not at work" is understated) since some persons on vacation or sick leave erroneously reported themselves as working. This problem has no effect on the total number of employed persons. The reference week for the employment data is not the same for all persons. Since persons can change their employment status from one week to another, the lack of a uniform reference week may mean that the employment data do not reflect the reality of the employment situation of any given week. (For more information, see the discussion under "Reference Week.")

Comparability—The questionnaire items and employment status concepts for the 1990 census are essentially the same as those used in the 1980 and 1970 censuses. However, these concepts differ in many respects from those associated with the 1950 and 1960 censuses.

Since employment data from the census are obtained from respondents in households, they differ from statistics based on reports from individual business establishments, farm enterprises, and certain government programs. Persons employed at more than one job are counted only once in the census and are classified according to the job at which they worked the greatest number of hours during the reference week. In statistics based on reports from business and farm establishments, persons who work for more than one establishment may be counted more than once. Moreover, some tabulations may exclude private household workers, unpaid family workers, and self-employed persons, but may include workers less than 16 years of age.

An additional difference in the data arises from the fact that persons who had a job but were not at work are included with the employed in the census statistics, whereas many of these persons are likely to be excluded from employment figures based on establishment payroll reports. Furthermore, the employment status data in census tabulations include persons on the basis of place of residence regardless of where they work, whereas establishment data report persons at their place of work regardless of where they live. This latter consideration is particularly significant when comparing data for workers who commute between areas.

Census data on actual hours worked during the reference week may differ from data from other sources. The census measures hours actually worked, whereas some surveys measure hours paid for by employers. Comparability of census actual hours worked data may also be affected by the nature of the reference week (see "Reference Week").

For several reasons, the unemployment figures of the Census Bureau are not comparable with published figures on unemployment compensation claims. For example,

figures on unemployment compensation claims exclude persons who have exhausted their benefit rights, new workers who have not earned rights to unemployment insurance, and persons losing jobs not covered by unemployment insurance systems (including some workers in agriculture, domestic services, and religious organizations, and self-employed and unpaid family workers). In addition, the qualifications for drawing unemployment compensation differ from the definition of unemployment used by the Census Bureau. Persons working only a few hours during the week and persons with a job but not at work are sometimes eligible for unemployment compensation but are classified as "Employed" in the census. Differences in the geographical distribution of unemployment data arise because the place where claims are filed may not necessarily be the same as the place of residence of the unemployed worker.

The figures on employment status from the decennial census are generally comparable with similar data collected in the Current Population Survey. However, some difference may exist because of variations in enumeration and processing techniques.

FERTILITY

The data on fertility (also referred to as "children ever born") were derived from answers to questionnaire item 20, which was asked of a sample of women 15 years old and over regardless of marital status. Stillbirths, stepchildren, and adopted children were excluded from the number of children ever born. Ever-married women were instructed to include all children born to them before and during their most recent marriage, children no longer living, and children away from home, as well as children who were still living in the home. Never-married women were instructed to include all children born to them.

Data are most frequently presented in terms of the aggregate number of children ever born to women in the specified category and in terms of the rate per 1,000 women. For purposes of calculating the aggregate, the open-ended response category, "12 or more" is assigned a value of 13.

Limitation of the Data—Although the data are assumed to be less complete for out-of-wedlock births than for births occurring within marriage, comparisons of 1980 census data on the fertility of single women with other census sources and administrative records indicate that no significant differences were found between different data sources; that is, 1980 census data on children ever born to single women were complete with no significant understatements of childbearing.

Comparability—The wording of the question on children ever born was the same in 1990 as in 1980. In 1970, however, the question on children ever born was asked of all ever-married women but only of never-married women

who received self-administered questionnaires. Therefore, rates and numbers of children ever born to single women in 1970 may be understated. Data presented for children ever born to ever-married women are comparable for the 1990 census and all previous censuses containing this question.

GROUP QUARTERS

All persons not living in households are classified by the Census Bureau as living in group quarters. Two general categories of persons in group quarters are recognized: (1) institutionalized persons and (2) other persons in group quarters (also referred to as "noninstitutional group quarters").

Institutionalized Persons—Includes persons under formally authorized, supervised care or custody in institutions at the time of enumeration. Such persons are classified as "patients or inmates" of an institution regardless of the availability of nursing or medical care, the length of stay, or the number of persons in the institution. Generally, institutionalized persons are restricted to the institutional buildings and grounds (or must have passes or escorts to leave) and thus have limited interaction with the surrounding community. Also, they are generally under the care of trained staff who have responsibility for their safekeeping and supervision.

Type of Institution—The type of institution was determined as part of census enumeration activities. For institutions which specialize in only one specific type of service, all patients or inmates were given the same classification. For institutions which had multiple types of major services (usually general hospitals and Veterans' Administration hospitals), patients were classified according to selected types of wards. For example, in psychiatric wards of hospitals, patients were classified in "mental (psychiatric) hospitals"; in hospital wards for persons with chronic diseases, patients were classified in "hospitals for the chronically ill." Each patient or inmate was classified in only one type of institution. Institutions include the following types:

Correctional Institutions—Includes prisons, Federal detention centers, military stockades and jails, police lockups, halfway houses, local jails, and other confinement facilities, including work farms.

Prisons—Where persons convicted of crimes serve their sentences. In some census products, the prisons are classified by two types of control: (1) "Federal" (operated by the Bureau of Prisons of the Department of Justice) and (2) "State." Residents who are criminally insane were classified on the basis of where they resided at the time of enumeration: (1) in institutions (or hospital wards)

operated by departments of correction or similar agencies; or (2) in institutions operated by departments of mental health or similar agencies.

Federal Detention Centers—Operated by the Immigration and Naturalization Service (INS) and the Bureau of Prisons. These facilities include detention centers used by the Park Police; Bureau of Indian Affairs Detention Centers; INS Centers, such as the INS Federal Alien Detention Facility; INS Processing Centers; and INS Contract Detention Centers used to detain aliens under exclusion or deportation proceedings, as well as those aliens who have not been placed into proceedings, such as custodial required departures; and INS Detention Centers operated within local jails, and State and Federal prisons.

Military Stockades, Jails—Operated by military police and used to hold persons awaiting trial or convicted of violating military laws.

Local Jails and Other Confinement Facilities—Includes facilities operated by counties and cities that primarily hold persons beyond arraignment, usually for more than 48 hours. Also included in this category are work farms used to hold persons awaiting trial or serving time on relatively short sentences and jails run by private businesses under contract for local governments (but *not* by State governments).

Police Lockups—Temporary-holding facilities operated by county and city police that hold persons for 48 hours or less only if they have not been formally charged in court.

Halfway Houses—Operated for correctional purposes and include probation and restitution centers, pre-release centers, and community-residential centers.

Other Types of Correctional Institutions—Privately operated correctional facilities and correctional facilities specifically for alcohol/drug abuse.

Nursing Homes—Comprises a heterogeneous group of places. The majority of patients are elderly, although persons who require nursing care because of chronic physical conditions may be found in these homes regardless of their age. Included in this category are skilled-nursing facilities, intermediate-care facilities, long-term care rooms in wards or buildings on the grounds of hospitals, or long-term care rooms/nursing wings in congregate housing facilities. Also included are nursing, convalescent, and rest homes, such as soldiers', sailors', veterans', and fraternal or religious homes for the aged, with or without nursing care. In some census products, nursing homes are classified by type of ownership as "Federal," "State," "Private not-for-profit," and "Private for profit."

Mental (Psychiatric) Hospitals—Includes hospitals or wards for the criminally insane not operated by a prison, and psychiatric wards of general hospitals and veterans' hospitals. Patients receive supervised medical/nursing care from formally-trained staff. In some census products, mental hospitals are classified by type of ownership as "Federal," "State or local," "Private," and "Ownership not known."

Hospitals for Chronically Ill—Includes hospitals for patients who require long-term care, including those in military hospitals and wards for the chronically ill located on military bases; or other hospitals or wards for the chronically ill, which include tuberculosis hospitals or wards, wards in general and Veterans' Administration hospitals for the chronically ill, neurological wards, hospices, wards for patients with Hansen's Disease (leprosy) and other incurable diseases, and other unspecified wards for the chronically ill. Patients who had no usual home elsewhere were enumerated as part of the institutional population in the wards of general and military hospitals. Most hospital patients are at the hospital temporarily and were enumerated at their usual place of residence. (For more information, see "Wards in General and Military Hospitals for Patients Who Have No Usual Home Elsewhere.")

Schools, Hospitals, or Wards for the Mentally Retarded—Includes those institutions such as wards in hospitals for the mentally retarded, and intermediate-care facilities for the mentally retarded that provide supervised medical/nursing care from formally-trained staff. In some census products, this category is classified by type of ownership as "Federal," "State or local," "Private," and "Ownership not known."

Schools, Hospitals, or Wards for the Physically Handicapped—Includes three types of institutions: institutions for the blind, those for the deaf, and orthopedic wards and institutions for the physically handicapped. Institutions for persons with speech problems are classified with "institutions for the deaf." The category "orthopedic wards and institutions for the physically handicapped" includes those institutions providing relatively long-term care to accident victims, and to persons with polio, cerebral palsy, and muscular dystrophy. In some census products, this category is classified by type of ownership as "Public," "Private," and "Ownership not known."

Hospitals, and Wards for Drug/Alcohol Abuse—Includes hospitals, and hospital wards in psychiatric and general hospitals. These facilities are equipped medically and designed for the diagnosis and treatment of medical or psychiatric illnesses associated with alcohol or drug abuse. Patients receive supervised medical care from formally-trained staff.

Wards in General and Military Hospitals for Patients Who Have No Usual Home Elsewhere—Includes maternity, neonatal, pediatric (including wards for boarder babies), military, and surgical wards of hospitals, and wards for persons with infectious diseases.

Juvenile Institutions—Includes homes, schools, and other institutions providing care for children (short- or long-term care). Juvenile institutions include the following types:

Homes for Abused, Dependent, and Neglected Children—Includes orphanages and other institutions which provide long-term care (usually more than 30 days) for children. This category is classified in some census products by type of ownership as "Public" and "Private."

Residential Treatment Centers—Includes those institutions which primarily serve children who, by clinical diagnosis, are moderately or seriously disturbed emotionally. Also, these institutions provide long-term treatment services, usually supervised or directed by a psychiatrist.

Training Schools for Juvenile Delinquents—Includes residential training schools or homes, and industrial schools, camps, or farms for juvenile delinquents.

Public Training Schools for Juvenile Delinquents—Usually operated by a State agency (for example, department of welfare, corrections, or a youth authority). Some are operated by county and city governments. These public training schools are specialized institutions serving delinquent children, generally between the ages of 10 and 17 years old, all of whom are committed by the courts.

Private Training Schools—Operated under private auspices. Some of the children they serve are committed by the courts as delinquents. Others are referred by parents or social agencies because of delinquent behavior. One difference between private and public training schools is that, by their administrative policy, private schools have control over their selection and intake.

Detention Centers—Includes institutions providing short-term care (usually 30 days or less) primarily for delinquent children pending disposition of their cases by a court. This category also covers diagnostic centers. In practice, such institutions may be caring for both delinquent and neglected children pending court disposition.

Other Persons in Group Quarters (also referred to as "noninstitutional group quarters")—Includes all persons who live in group quarters other than institutions. Persons who live in the following living quarters are

classified as "other persons in group quarters" when there are 10 or more unrelated persons living in the unit; otherwise, these living quarters are classified as housing units.

Rooming Houses—Includes persons residing in rooming and boarding houses and living in quarters with 10 or more unrelated persons.

Group Homes—Includes "community-based homes" that provide care and supportive services. Such places include homes for the mentally ill, mentally retarded, and physically handicapped; drug/alcohol halfway houses; communes; and maternity homes for unwed mothers.

Homes for the Mentally Ill—Includes community-based homes that provide care primarily for the mentally ill. In some data products, this category is classified by type of ownership as "Federal," "State," "Private," and "Ownership not known." Homes which combine treatment of the physically handicapped with treatment of the mentally ill are counted as homes for the mentally ill.

Homes for the Mentally Retarded—Includes community-based homes that provide care primarily for the mentally retarded. Homes which combine treatment of the physically handicapped with treatment of the mentally retarded are counted as homes for the mentally retarded. This category is classified by type of ownership in some census products, as "Federal," "State," "Private," or "Ownership not known."

Homes for the Physically Handicapped—Includes community-based homes for the blind, for the deaf, and other community-based homes for the physically handicapped. Persons with speech problems are classified with homes for the deaf. In some census products, this category is classified by type of ownership as "Public," "Private," or "Ownership not known."

Homes or Halfway Houses for Drug/Alcohol Abuse—Includes persons with no usual home elsewhere in places that provide community-based care and supportive services to persons suffering from a drug/alcohol addiction and to recovering alcoholics and drug abusers. Places providing community-based care for drug and alcohol abusers include group homes, detoxification centers, quarterway houses (residential treatment facilities that work closely with accredited hospitals), halfway houses, and recovery homes for ambulatory, mentally competent recovering alcoholics and drug abusers who may be re-entering the work force.

Maternity Homes for Unwed Mothers—Includes persons with no usual home elsewhere in places that provide domestic care for unwed mothers and their

children. These homes may provide social services and post-natal care within the facility, or may make arrangements for women to receive such services in the community. Nursing services are usually available in the facility.

Other Group Homes—Includes persons with no usual home elsewhere in communes, foster care homes, and job corps centers with 10 or more unrelated persons. These types of places provide communal living quarters, generally for persons who have formed their own community in which they have common interests and often share or own property jointly.

Religious Group Quarters—Includes, primarily, group quarters for nuns teaching in parochial schools and for priests living in rectories. It also includes other convents and monasteries, except those associated with a general hospital or an institution.

College Quarters Off Campus—Includes privately-owned rooming and boarding houses off campus, if the place is reserved exclusively for occupancy by college students and if there are 10 or more unrelated persons. In census products, persons in this category are classified as living in a college dormitory.

Persons residing in certain other types of living arrangements are classified as living in "noninstitutional group quarters" regardless of the number of people sharing the unit. These include persons residing in the following types of group quarters:

College Dormitories—Includes college students in dormitories (provided the dormitory is restricted to students who do not have their families living with them), fraternity and sorority houses, and on-campus residential quarters used exclusively for those in religious orders who are attending college. Students in privately-owned rooming and boarding houses off campus are also included, if the place is reserved exclusively for occupancy by college-level students and if there are 10 or more unrelated persons.

Military Quarters—Includes military personnel living in barracks and dormitories on base, in transient quarters on base for temporary residents (both civilian and military), and on military ships. However, patients in military hospitals receiving treatment for chronic diseases or who had no usual home elsewhere, and persons being held in military stockades were included as part of the institutional population.

Agriculture Workers' Dormitories—Includes persons in migratory farm workers' camps on farms, bunkhouses for ranch hands, and other dormitories on farms, such as those on "tree farms."

Other Workers' Dormitories—Includes persons in logging camps, construction workers' camps, firehouse dormitories, job-training camps, energy enclaves (Alaska only), and nonfarm migratory workers' camps (for example, workers in mineral and mining camps).

Emergency Shelters for Homeless Persons (with sleeping facilities) and Visible in Street Locations—Includes persons enumerated during the "Shelter-and-Street-Night" operation primarily on March 20-21, 1990. Enumerators were instructed not to ask if a person was "homeless." If a person was at one of the locations below on March 20-21, the person was counted as described below. (For more information on the "Shelter-and-Street-Night" operation, see Appendix D, Collection and Processing Procedures.) This category is divided into four classifications:

Emergency Shelters for Homeless Persons (with sleeping facilities)—Includes persons who stayed overnight on March 20, 1990, in permanent and temporary emergency housing, missions, hotels/motels, and flophouses charging \$12 or less (excluding taxes) per night; Salvation Army shelters, hotels, and motels used *entirely* for homeless persons regardless of the nightly rate charged; rooms in hotels and motels used *partially* for the homeless; and similar places known to have persons who have no usual home elsewhere staying overnight. If not shown separately, shelters and group homes that provide *temporary* sleeping facilities for runaway, neglected, and homeless children are included in this category in data products.

Shelters for Runaway, Neglected, and Homeless Children—Includes shelters/group homes which provide *temporary* sleeping facilities for juveniles.

Visible in Street Locations—Includes street blocks and open public locations designated before March 20, 1990, by city and community officials as places where the homeless congregate at night. *All* persons found at predesignated street sites from 2 a.m. to 4 a.m. and leaving abandoned or boarded-up buildings from 4 a.m. to 8 a.m. on March 21, 1990, were enumerated during "street" enumeration, except persons in uniform such as police and persons engaged in obvious money-making activities other than begging or panhandling. Enumerators were instructed not to ask if a person was "homeless."

This cannot be considered a complete count of all persons living on the streets because those who were so well hidden that local people did not know where to find them were likely to have been missed as were persons moving about or in places not identified by local officials. It is also possible that persons with homes could have been included in the count of "visible in street locations" if they were present when the enumerator did the enumeration of a particular block.

Pre-designated street sites include street corners, parks, bridges, persons emerging from abandoned and boarded-up buildings, noncommercial campsites (tent cities), all-night movie theaters, all-night restaurants, emergency hospital waiting rooms, train stations, airports, bus depots, and subway stations.

Shelters for Abused Women (Shelters Against Domestic Violence or Family Crisis Centers)—Includes community-based homes or shelters that provide domiciliary care for women who have sought shelter from family violence and who may have been physically abused. Most shelters also provide care for children of abused women. These shelters may provide social services, meals, psychiatric treatment, and counseling. In some census products, "shelters for abused women" are included in the category "other noninstitutional group quarters."

Dormitories for Nurses and Interns in General and Military Hospitals—Includes group quarters for nurses and other staff members. It excludes patients.

Crews of Maritime Vessels—Includes officers, crew members, and passengers of maritime U.S. flag vessels. All ocean-going and Great Lakes ships are included.

Staff Residents of Institutions—Includes staff residing in group quarters on institutional grounds who provide formally-authorized, supervised care or custody for the institutionalized population.

Other Nonhousehold Living Situations—Includes persons with no usual home elsewhere enumerated during transient or "T-Night" enumeration at YMCA's, YWCA's, youth hostels, commercial and government-run campgrounds, campgrounds at racetracks, fairs, and carnivals, and similar transient sites.

Living Quarters for Victims of Natural Disasters—Includes living quarters for persons temporarily displaced by natural disasters.

Limitation of the Data—Two types of errors can occur in the classification of "types of group quarters":

1. *Misclassification of Group Quarters*—During the 1990 Special Place Pelist operation, the enumerator determined the type of group quarters associated with each special place in their assignment. The enumerator used the Alphabetical Group Quarters Code List and Index to the Alphabetical Group Quarters Code List to assign a two-digit code number followed by either an "I," for institutional, or an "N," for noninstitutional to each group quarters. In 1990, unacceptable group quarter codes were edited. (For more information on editing of unacceptable data, see Appendix C, Accuracy of the Data.)

2. *No Classification (unknowns)*—The imputation rate for type of institution was higher in 1980 (23.5 percent) than in 1970 (3.3 percent). Improvements were made to the 1990 Alphabetical Group Quarters Code List; that is, the inclusion of more group quarters categories and an "Index to the Alphabetical Group Quarters Code List." (For more information on the allocation rates for Type of Institution, see the allocation rates in 1990 CP-1, *General Population Characteristics*.)

In previous censuses, allocation rates for demographic characteristics (such as age, sex, race, and marital status) of the institutional population were similar to those for the total population. The allocation rates for sample characteristics such as school enrollment, highest grade completed, income, and veteran status for the institutional and noninstitutional group quarters population have been substantially higher than the population in households at least as far back as the 1960 census. The data, however, have historically presented a reasonable picture of the institutional and noninstitutional group quarters population.

Shelter and Street Night (S-Night)—For the 1990 census "Shelter-and-Street-Night" operation, persons well hidden, moving about, or in locations enumerators did not visit were likely to be missed. The number of people missed will never be known; thus, the 1990 census cannot be considered to include a definitive count of America's total homeless population. It does, however, give an idea of relative differences among areas of the country. Other components were counted as part of regular census procedures.

The count of persons in shelters and visible on the street could have been affected by many factors. How much the factors affected the count can never be answered definitively, but some elements include:

1. How well enumerators were trained and how well they followed procedures.
2. How well the list of shelter and street locations given to the Census Bureau by the local government reflected the actual places that homeless persons stay at night.
3. Cities were encouraged to open temporary shelters for census night, and many did that and actively encouraged people to enter the shelters. Thus, people who may have been on the street otherwise were in shelters the night of March 20, so that the ratio of shelter-to-street population could be different than usual.
4. The weather, which was unusually cold in some parts of the country, could affect how likely people were to seek emergency shelter or to be more hidden than usual if they stayed outdoors.
5. The media occasionally interfered with the ability to do the count.
6. How homeless people perceived the census and whether they wanted to be counted or feared the census and hid from it.

The Census Bureau conducted two assessments of Shelter and Street Night: (1) the quality of the lists of shelters used for the Shelter-and-Street-Night operation, and (2) how well procedures were followed by census-takers for the street count in parts of five cities (Chicago, Los Angeles, New Orleans, New York, and Phoenix). Information about these two assessments is available from the Chief, Center for Survey Methods Research, Bureau of the Census, Washington, DC 20233.

Comparability—For the 1990 census, the definition of institutionalized persons was revised so that the definition of “care” only includes persons under organized medical or formally-authorized, supervised care or custody. As a result of this change to the institutional definition, maternity homes are classified as noninstitutional rather than institutional group quarters as in previous censuses. The following types of other group quarters are classified as institutional rather than noninstitutional group quarters: “halfway houses (operated for correctional purposes)” and “wards in general and military hospitals for patients who have no usual home elsewhere,” which includes maternity, neonatal, pediatric, military, and surgical wards of hospitals, other-purpose wards of hospitals, and wards for infectious diseases. These changes should not significantly affect the comparability of data with earlier censuses because of the relatively small number of persons involved.

As in 1980, 10 or more unrelated persons living together were classified as living in noninstitutional group quarters. In 1970, the criteria was six or more unrelated persons.

Several changes also have occurred in the identification of specific types of group quarters. For the first time, the 1990 census identifies separately the following types of correctional institutions: persons in halfway houses (operated for correctional purposes), military stockades and jails, and police lockups. In 1990, tuberculosis hospitals or wards are included with hospitals for the chronically ill; in 1980, they were shown separately. For 1990, the noninstitutional group quarters category, “Group homes” is further classified as: group homes for drug/alcohol abuse; maternity homes (for unwed mothers), group homes for the mentally ill, group homes for the mentally retarded, and group homes for the physically handicapped. Persons living in communes, foster-care homes, and job corps centers are classified with “Other group homes” only if 10 or more unrelated persons share the unit; otherwise, they are classified as housing units.

In 1990, workers’ dormitories were classified as group quarters regardless of the number of persons sharing the dorm. In 1980, 10 or more unrelated persons had to share the dorm for it to be classified as a group quarters. In 1960, data on persons in military barracks were shown only for men. In subsequent censuses, they include both men and women.

In 1990 census data products, the phrase “inmates of institutions” was changed to “institutionalized persons.” Also, persons living in noninstitutional group quarters were

referred to as “other persons in group quarters,” and the phrase “staff residents” was used for staff living in institutions.

In 1990, there are additional institutional categories and noninstitutional group quarters categories compared with the 1980 census. The institutional categories added include “hospitals and wards for drug/alcohol abuse” and “military hospitals for the chronically ill.” The noninstitutional group quarters categories added include emergency shelters for homeless persons; shelters for runaway, neglected, and homeless children; shelters for abused women; and visible-in-street locations. Each of these noninstitutional group quarters categories was enumerated on March 20-21, 1990, during the “Shelter-and-Street-Night” operation. (For more information on the “Shelter-and-Street-Night” operation, see Appendix D, Collection and Processing Procedures.)

HISPANIC ORIGIN

The data on Spanish/Hispanic origin were derived from answers to questionnaire item 7, which was asked of all persons. Persons of Hispanic origin are those who classified themselves in one of the specific Hispanic origin categories listed on the questionnaire—“Mexican,” “Puerto Rican,” or “Cuban”—as well as those who indicated that they were of “other Spanish/Hispanic” origin. Persons of “Other Spanish/Hispanic” origin are those whose origins are from Spain, the Spanish-speaking countries of Central or South America, or the Dominican Republic, or they are persons of Hispanic origin identifying themselves generally as Spanish, Spanish-American, Hispanic, Hispano, Latino, and so on. Write-in responses to the “other Spanish/Hispanic” category were coded only for sample data.

Origin can be viewed as the ancestry, nationality group, lineage, or country of birth of the person or the person’s parents or ancestors before their arrival in the United States. Persons of Hispanic origin may be of any race.

Some tabulations are shown by the Hispanic origin of the householder. In all cases where households, families, or occupied housing units are classified by Hispanic origin, the Hispanic origin of the householder is used. (See the discussion of householder under “Household Type and Relationship.”)

During direct interviews conducted by enumerators, if a person could not provide a single origin response, he or she was asked to select, based on self-identification, the group which best described his or her origin or descent. If a person could not provide a single group, the origin of the person’s mother was used. If a single group could not be provided for the person’s mother, the first origin reported by the person was used.

If any household member failed to respond to the Spanish/Hispanic origin question, a response was assigned by the computer according to the reported entries of other household members by using specific rules of precedence of household relationship. In the processing of sample

questionnaires, responses to other questions on the questionnaire, such as ancestry and place of birth, were used to assign an origin before any reference was made to the origin reported by other household members. If an origin was not entered for any household member, an origin was assigned from another household according to the race of the householder. This procedure is a variation of the general imputation process described in Appendix C, Accuracy of the Data.

Comparability—There may be differences between the total Hispanic origin population based on 100-percent tabulations and sample tabulations. Such differences are the result of sampling variability, nonsampling error, and more extensive edit procedures for the Spanish/Hispanic origin item on the sample questionnaires. (For more information on sampling variability and nonsampling error, see Appendix C, Accuracy of the Data.)

The 1990 data on Hispanic origin are generally comparable with those for the 1980 census. However, there are some differences in the format of the Hispanic origin question between the two censuses. For 1990, the word "descent" was deleted from the 1980 wording. In addition, the term "Mexican-Amer." used in 1980 was shortened further to "Mexican-Am." to reduce misreporting (of "American") in this category detected in the 1980 census. Finally, the 1990 question allowed those who reported as "other Spanish/Hispanic" to write in their specific Hispanic origin group.

Misreporting in the "Mexican-Amer." category of the 1980 census item on Spanish/Hispanic origin may affect the comparability of 1980 and 1990 census data for persons of Hispanic origin for certain areas of the country. An evaluation of the 1980 census item on Spanish/Hispanic origin indicated that there was misreporting in the Mexican origin category by White and Black persons in certain areas. The study results showed evidence that the misreporting occurred in the South (excluding Texas), the Northeast (excluding the New York City area), and a few States in the Midwest Region. Also, results based on available data suggest that the impact of possible misreporting of Mexican origin in the 1980 census was severe in those portions of the above-mentioned regions where the Hispanic origin population was generally sparse. However, national 1980 census data on the Mexican origin population or total Hispanic origin population at the national level was not seriously affected by the reporting problem. (For a more detailed discussion of the evaluation of the 1980 census Spanish/Hispanic origin item, see the 1980 census Supplementary Reports.)

The 1990 and 1980 census data on the Hispanic population are not directly comparable with 1970 Spanish origin data because of a number of factors: (1) overall improvements in the 1980 and 1990 censuses, (2) better coverage of the population, (3) improved question designs, and (4) an effective public relations campaign by the Census Bureau with the assistance of national and community ethnic groups.

Specific changes in question design between the 1980 and 1970 censuses included the placement of the category "No, not Spanish/Hispanic" as the first category in that question. (The corresponding category appeared last in the 1970 question.) Also, the 1970 category "Central or South American" was deleted because in 1970 some respondents misinterpreted the category; furthermore, the designations "Mexican-American" and "Chicano" were added to the Spanish/Hispanic origin question in 1980. In the 1970 census, the question on Spanish origin was asked of only a 5-percent sample of the population.

HOUSEHOLD TYPE AND RELATIONSHIP

Household

A household includes all the persons who occupy a housing unit. A housing unit is a house, an apartment, a mobile home, a group of rooms, or a single room that is occupied (or if vacant, is intended for occupancy) as separate living quarters. Separate living quarters are those in which the occupants live and eat separately from any other persons in the building and which have direct access from the outside of the building or through a common hall. The occupants may be a single family, one person living alone, two or more families living together, or any other group of related or unrelated persons who share living arrangements.

In 100-percent tabulations, the count of households or householders always equals the count of occupied housing units. In sample tabulations, the numbers may differ as a result of the weighting process.

Persons Per Household—A measure obtained by dividing the number of persons in households by the number of households (or householders). In cases where persons in households are cross-classified by race or Hispanic origin, persons in the household are classified by the race or Hispanic origin of the householder rather than the race or Hispanic origin of each individual.

Relationship to Householder

Householder—The data on relationship to householder were derived from answers to questionnaire item 2, which was asked of all persons in housing units. One person in each household is designated as the householder. In most cases, this is the person, or one of the persons, in whose name the home is owned, being bought, or rented and who is listed in column 1 of the census questionnaire. If there is no such person in the household, any adult household member 15 years old and over could be designated as the householder.

Households are classified by type according to the sex of the householder and the presence of relatives. Two types of householders are distinguished: a family householder and a nonfamily householder. A family householder

is a householder living with one or more persons related to him or her by birth, marriage, or adoption. The householder and all persons in the household related to him or her are family members. A nonfamily householder is a householder living alone or with nonrelatives only.

Spouse—Includes a person married to and living with a householder. This category includes persons in formal marriages, as well as persons in common-law marriages.

The number of spouses is equal to the number of "married-couple families" or "married-couple households" in 100-percent tabulations. The number of spouses, however, is generally less than half of the number of "married persons with spouse present" in sample tabulations, since more than one married couple can live in a household, but only spouses of householders are specifically identified as "spouse." For sample tabulations, the number of "married persons with spouse present" includes married-couple subfamilies and married-couple families.

Child—Includes a son or daughter by birth, a stepchild, or adopted child of the householder, regardless of the child's age or marital status. The category excludes sons-in-law, daughters-in-law, and foster children.

Natural-Born or Adopted Son/Daughter—A son or daughter of the householder by birth, regardless of the age of the child. Also, this category includes sons or daughters of the householder by legal adoption, regardless of the age of the child. If the stepson/stepdaughter of the householder has been legally adopted by the householder, the child is still classified as a stepchild.

Stepson/Stepdaughter—A son or daughter of the householder through marriage but not by birth, regardless of the age of the child. If the stepson/stepdaughter of the householder has been legally adopted by the householder, the child is still classified as a stepchild.

Own Child—A never-married child under 18 years who is a son or daughter by birth, a stepchild, or an adopted child of the householder. In certain tabulations, own children are further classified as living with two parents or with one parent only. Own children of the householder living with two parents are by definition found only in married-couple families.

In a subfamily, an "own child" is a never-married child under 18 years of age who is a son, daughter, stepchild, or an adopted child of a mother in a mother-child subfamily, a father in a father-child subfamily, or either spouse in a married-couple subfamily.

"Related children" in a family include own children and all other persons under 18 years of age in the household, regardless of marital status, who are related to the householder, except the spouse of the householder. Foster children are not included since they are not related to the householder.

Other Relatives—In tabulations, includes any household member related to the householder by birth, marriage, or adoption, but not included specifically in another relationship category. In certain detailed tabulations, the following categories may be shown:

Grandchild—The grandson or granddaughter of the householder.

Brother/Sister—The brother or sister of the householder, including stepbrothers, stepsisters, and brothers and sisters by adoption. Brothers-in-law and sisters-in-law are included in the "Other relative" category on the questionnaire.

Parent—The father or mother of the householder, including a stepparent or adoptive parent. Fathers-in-law and mothers-in-law are included in the "Other relative" category on the questionnaire.

Other Relatives—Anyone not listed in a reported category above who is related to the householder by birth, marriage, or adoption (brother-in-law, grandparent, nephew, aunt, mother-in-law, daughter-in-law, cousin, and so forth).

Nonrelatives—Includes any household member, including foster children not related to the householder by birth, marriage, or adoption. The following categories may be presented in more detailed tabulations:

Roomer, Boarder, or Foster Child—Roomer, boarder, lodger, and foster children or foster adults of the householder.

Housemate or Roommate—A person who is not related to the householder and who shares living quarters primarily in order to share expenses.

Unmarried Partner—A person who is not related to the householder, who shares living quarters, and who has a close personal relationship with the householder.

Other Nonrelatives—A person who is not related by birth, marriage, or adoption to the householder and who is not described by the categories given above.

When relationship is not reported for an individual, it is imputed according to the responses for age, sex, and marital status for that person while maintaining consistency with responses for other individuals in the household. (For more information on imputation, see Appendix C, Accuracy of the Data.)

Unrelated Individual

An unrelated individual is: (1) a householder living alone or with nonrelatives only, (2) a household member who is not related to the householder, or (3) a person living in group quarters who is not an inmate of an institution.

Family Type

A family consists of a householder and one or more other persons living in the same household who are related to the householder by birth, marriage, or adoption. All persons in a household who are related to the householder are regarded as members of his or her family. A household can contain only one family for purposes of census tabulations. Not all households contain families since a household may comprise a group of unrelated persons or one person living alone.

Families are classified by type as either a "married-couple family" or "other family" according to the sex of the householder and the presence of relatives. The data on family type are based on answers to questions on sex and relationship which were asked on a 100-percent basis.

Married-Couple Family—A family in which the householder and his or her spouse are enumerated as members of the same household.

Other Family:

Male Householder, No Wife Present—A family with a male householder and no spouse of householder present.

Female Householder, No Husband Present—A family with a female householder and no spouse of householder present.

Persons Per Family—A measure obtained by dividing the number of persons in families by the total number of families (or family householders). In cases where the measure, "persons in family" or "persons per family" are cross-tabulated by race or Hispanic origin, the race or Hispanic origin refers to the householder rather than the race or Hispanic origin of each individual.

Subfamily

A subfamily is a married couple (husband and wife enumerated as members of the same household) with or without never-married children under 18 years old, or one parent with one or more never-married children under 18 years old, living in a household and related to, but not including, either the householder or the householder's spouse. The number of subfamilies is not included in the count of families, since subfamily members are counted as part of the householder's family.

Subfamilies are defined during processing of sample data. In selected tabulations, subfamilies are further classified by type: married-couple subfamilies, with or without own children; mother-child subfamilies; and father-child subfamilies.

Lone parents include people maintaining either one-parent families or one-parent subfamilies. Married couples include husbands and wives in both married-couple families and married-couple subfamilies.

Unmarried-Partner Household

An unmarried-partner household is a household other than a "married-couple household" that includes a householder and an "unmarried partner." An "unmarried partner" can be of the same sex or of the opposite sex of the householder. An "unmarried partner" in an "unmarried-partner household" is an adult who is unrelated to the householder, but shares living quarters and has a close personal relationship with the householder.

Unmarried-Couple Household

An unmarried-couple household is composed of two unrelated adults of the opposite sex (one of whom is the householder) who share a housing unit with or without the presence of children under 15 years old.

Foster Children

Foster children are nonrelatives of the householder and are included in the category, "Roomer, boarder, or foster child" on the questionnaire. Foster children are identified as persons under 18 years old and living in households that have no nonrelatives 18 years old and over (who might be parents of the nonrelatives under 18 years old).

Stepfamily

A stepfamily is a "married-couple family" with at least one stepchild of the householder present, where the householder is the husband.

Comparability—The 1990 definition of a household is the same as that used in 1980. The 1980 relationship category "Son/daughter" has been replaced by two categories, "Natural-born or adopted son/daughter" and "Stepson/stepdaughter." "Grandchild" has been added as a separate category. The 1980 nonrelative categories: "Roomer, boarder" and "Partner, roommate" have been replaced by the categories "Roomer, boarder, or foster child," "Housemate, roommate," and "Unmarried partner." The 1980 nonrelative category "Paid employee" has been dropped.

INCOME IN 1989

The data on income in 1989 were derived from answers to questionnaire items 32 and 33. Information on money income received in the calendar year 1989 was requested from persons 15 years old and over. "Total income" is the algebraic sum of the amounts reported separately for wage or salary income; net nonfarm self-employment income; net farm self-employment income; interest, dividend, or net rental or royalty income; Social Security or railroad retirement income; public assistance or welfare income; retirement or disability income; and all other income. "Earnings" is defined as the algebraic sum of

wage or salary income and net income from farm and nonfarm self-employment. "Earnings" represent the amount of income received regularly before deductions for personal income taxes, Social Security, bond purchases, union dues, medicare deductions, etc.

Receipts from the following sources are not included as income: money received from the sale of property (unless the recipient was engaged in the business of selling such property); the value of income "in kind" from food stamps, public housing subsidies, medical care, employer contributions for persons, etc.; withdrawal of bank deposits; money borrowed; tax refunds; exchange of money between relatives living in the same household; gifts and lump-sum inheritances, insurance payments, and other types of lump-sum receipts.

Income Type in 1989

The eight types of income reported in the census are defined as follows:

1. *Wage or Salary Income*—Includes total money earnings received for work performed as an employee during the calendar year 1989. It includes wages, salary, Armed Forces pay, commissions, tips, piece-rate payments, and cash bonuses earned before deductions were made for taxes, bonds, pensions, union dues, etc.
2. *Nonfarm Self-Employment Income*—Includes net money income (gross receipts minus expenses) from one's own business, professional enterprise, or partnership. Gross receipts include the value of all goods sold and services rendered. Expenses include costs of goods purchased, rent, heat, light, power, depreciation charges, wages and salaries paid, business taxes (not personal income taxes), etc.
3. *Farm Self-Employment Income*—Includes net money income (gross receipts minus operating expenses) from the operation of a farm by a person on his or her own account, as an owner, renter, or sharecropper. Gross receipts include the value of all products sold, government farm programs, money received from the rental of farm equipment to others, and incidental receipts from the sale of wood, sand, gravel, etc. Operating expenses include cost of feed, fertilizer, seed, and other farming supplies, cash wages paid to farmhands, depreciation charges, cash rent, interest on farm mortgages, farm building repairs, farm taxes (not State and Federal personal income taxes), etc. The value of fuel, food, or other farm products used for family living is not included as part of net income.
4. *Interest, Dividend, or Net Rental Income*—Includes interest on savings or bonds, dividends from stockholdings or membership in associations, net income from rental of property to others and receipts from boarders or lodgers, net royalties, and periodic payments from an estate or trust fund.

5. *Social Security Income*—Includes Social Security pensions and survivors benefits and permanent disability insurance payments made by the Social Security Administration prior to deductions for medical insurance, and railroad retirement insurance checks from the U.S. Government. Medicare reimbursements are not included.
6. *Public Assistance Income*—Includes: (1) supplementary security income payments made by Federal or State welfare agencies to low income persons who are aged (65 years old or over), blind, or disabled; (2) aid to families with dependent children, and (3) general assistance. Separate payments received for hospital or other medical care (vendor payments) are excluded from this item.
7. *Retirement or Disability Income*—Includes: (1) retirement pensions and survivor benefits from a former employer, labor union, or Federal, State, county, or other governmental agency; (2) disability income from sources such as worker's compensation; companies or unions; Federal, State, or local government; and the U.S. military; (3) periodic receipts from annuities and insurance; and (4) regular income from IRA and KEOGH plans.
8. *All Other Income*—Includes unemployment compensation, Veterans Administration (VA) payments, alimony and child support, contributions received periodically from persons not living in the household, military family allotments, net gambling winnings, and other kinds of periodic income other than earnings.

Income of Households—Includes the income of the householder and all other persons 15 years old and over in the household, whether related to the householder or not. Because many households consist of only one person, average household income is usually less than average family income.

Income of Families and Persons—In compiling statistics on family income, the incomes of all members 15 years old and over in each family are summed and treated as a single amount. However, for persons 15 years old and over, the total amounts of their own incomes are used. Although the income statistics covered the calendar year 1989, the characteristics of persons and the composition of families refer to the time of enumeration (April 1990). Thus, the income of the family does not include amounts received by persons who were members of the family during all or part of the calendar year 1989 if these persons no longer resided with the family at the time of enumeration. Yet, family income amounts reported by related persons who did not reside with the family during 1989 but who were members of the family at the time of enumeration are included. However, the composition of most families was the same during 1989 as in April 1990.

Median Income—The median divides the income distribution into two equal parts, one having incomes above the median and the other having incomes below the median.

For households and families, the median income is based on the distribution of the total number of units including those with no income. The median for persons is based on persons with income. The median income values for all households, families, and persons are computed on the basis of more detailed income intervals than shown in most tabulations. Median household or family income figures of \$50,000 or less are calculated using linear interpolation. For persons, corresponding median values of \$40,000 or less are also computed using linear interpolation. All other median income amounts are derived through Pareto interpolation. (For more information on medians and interpolation, see the discussion under "Derived Measures.")

Mean Income—This is the amount obtained by dividing the total income of a particular statistical universe by the number of units in that universe. Thus, mean household income is obtained by dividing total household income by the total number of households. For the various types of income the means are based on households having those types of income. "Per capita income" is the mean income computed for every man, woman, and child in a particular group. It is derived by dividing the total income of a particular group by the total population in that group.

Care should be exercised in using and interpreting mean income values for small subgroups of the population. Because the mean is influenced strongly by extreme values in the distribution, it is especially susceptible to the effects of sampling variability, misreporting, and processing errors. The median, which is not affected by extreme values, is, therefore, a better measure than the mean when the population base is small. The mean, nevertheless, is shown in some data products for most small subgroups because, when weighted according to the number of cases, the means can be added to obtained summary measures for areas and groups other than those shown in census tabulations.

Limitation of the Data—Since questionnaire entries for income frequently are based on memory and not on records, many persons tended to forget minor or irregular sources of income and, therefore, underreport their income. Underreporting tends to be more pronounced for income sources that are not derived from earnings, such as Social Security, public assistance, or from interest, dividends, and net rental income.

There are errors of reporting due to the misunderstanding of the income questions such as reporting gross rather than net dollar amounts for the two questions on net self-employment income, which resulted in an overstatement of these items. Another common error is the reporting of identical dollar amounts in two of the eight type of income items where a respondent with only one source of income assumed that the second amount should be entered to represent total income. Such instances of

overreporting had an impact on the level of mean nonfarm or farm self-employment income and mean total income published for the various geographical subdivisions of the State.

Extensive computer editing procedures were instituted in the data processing operation to reduce some of these reporting errors and to improve the accuracy of the income data. These procedures corrected various reporting deficiencies and improved the consistency of reported income items associated with work experience and information on occupation and class of worker. For example, if persons reported they were self-employed on their own farm, not incorporated, but had reported wage and salary earnings only, the latter amount was shifted to net farm self-employment income. Also, if any respondent reported total income only, the amount was generally assigned to one of the type of income items according to responses to the work experience and class-of-worker questions. Another type of problem involved nonreporting of income data. Where income information was not reported, procedures were devised to impute appropriate values with either no income or positive or negative dollar amounts for the missing entries. (For more information on imputation, see Appendix C, Accuracy of the Data.)

In income tabulations for households and families, the lowest income group (e.g., less than \$5,000) includes units that were classified as having no 1989 income. Many of these were living on income "in kind," savings, or gifts, were newly created families, or families in which the sole breadwinner had recently died or left the household. However, many of the households and families who reported no income probably had some money income which was not recorded in the census.

The income data presented in the tabulations covers money income only. The fact that many farm families receive an important part of their income in the form of "free" housing and goods produced and consumed on the farm rather than in money should be taken into consideration in comparing the income of farm and nonfarm residents. Nonmoney income such as business expense accounts, use of business transportation and facilities, or partial compensation by business for medical and educational expenses was also received by some nonfarm residents. Many low income families also receive income "in kind" from public welfare programs. In comparing income data for 1989 with earlier years, it should be noted that an increase or decrease in money income does not necessarily represent a comparable change in real income, unless adjustments for changes in prices are made.

Comparability—The income data collected in the 1980 and 1970 censuses are similar to the 1990 census data, but there are variations in the detail of the questions. In 1980, income information for 1979 was collected from persons in approximately 19 percent of all housing units and group quarters. Each person was required to report:

- Wage or salary income

- Net nonfarm self-employment income
- Net farm self-employment income
- Interest, dividend, or net rental or royalty income
- Social Security income
- Public assistance income
- Income from all other sources

Between the 1980 and 1990 censuses, there were minor differences in the processing of the data. In both censuses, all persons with missing values in one or more of the detailed type of income items *and* total income were designated as allocated. Each missing entry was imputed either as a "no" or as a dollar amount. If total income was reported *and* one or more of the type of income fields was not answered, then the entry in total income generally was assigned to one of the income types according to the socioeconomic characteristics of the income recipient. This person was designated as unallocated.

In 1980 and 1990, all nonrespondents with income not reported (whether heads of households or other persons) were assigned the reported income of persons with similar characteristics. (For more information on imputation, see Appendix C, "Accuracy of the Data.")

There was a difference in the method of computer derivation of aggregate income from individual amounts between the two census processing operations. In the 1980 census, income amounts less than \$100,000 were coded in tens of dollars, and amounts of \$100,000 or more were coded in thousands of dollars; \$5 was added to each amount coded in tens of dollars and \$500 to each amount coded in thousands of dollars. Entries of \$999,000 or more were treated as \$999,500 and losses of \$9,999 or more were treated as minus \$9,999. In the 1990 census, income amounts less than \$999,999 were keyed in dollars. Amounts of \$999,999 or more were treated as \$999,999 and losses of \$9,999 or more were treated as minus \$9,999 in all of the computer derivations of aggregate income.

In 1970, information on income in 1969 was obtained from all members in every fifth housing unit and small group quarters (less than 15 persons) and every fifth person in all other group quarters. Each person was required to report:

- Wage or salary income
- Net nonfarm self-employment income
- Net farm self-employment income
- Social Security or Railroad Retirement
- Public assistance or welfare payments
- Income from all other sources

If a person reported a dollar amount in wage or salary, net nonfarm self-employment income, or net farm self-employment income, the person was considered as unallocated only if no further dollar amounts were imputed for any additional missing entries.

In 1960, data on income were obtained from all members in every fourth housing unit and from every fourth person 14 years old and over living in group quarters. Each person was required to report wage or salary income, net self-employment income, and income other than earnings received in 1959. An assumption was made in the editing process that no other type of income was received by a person who reported the receipt of either wage and salary income or self-employment but who had failed to report the receipt of other money income.

For several reasons, the income data shown in census tabulations are not directly comparable with those that may be obtained from statistical summaries of income tax returns. Income, as defined for Federal tax purposes, differs somewhat from the Census Bureau concept. Moreover, the coverage of income tax statistics is different because of the exemptions of persons having small amounts of income and the inclusion of net capital gains in tax returns. Furthermore, members of some families file separate returns and others file joint returns; consequently, the income reporting unit is not consistently either a family or a person.

The earnings data shown in census tabulations are not directly comparable with earnings records of the Social Security Administration. The earnings record data for 1989 excluded the earnings of most civilian government employees, some employees of nonprofit organizations, workers covered by the Railroad Retirement Act, and persons not covered by the program because of insufficient earnings. Furthermore, earnings received from any one employer in excess of \$48,000 in 1989 are not covered by earnings records. Finally, because census data are obtained from household questionnaires, they may differ from Social Security Administration earnings record data, which are based upon employers' reports and the Federal income tax returns of self-employed persons.

The Bureau of Economic Analysis (BEA) of the Department of Commerce publishes annual data on aggregate and per-capita personal income received by the population for States, metropolitan areas, and selected counties. Aggregate income estimates based on the income statistics shown in census products usually would be less than those shown in the BEA income series for several reasons. The Census Bureau data are obtained directly from households, whereas the BEA income series is estimated largely on the basis of data from administrative records of business and governmental sources. Moreover, the definitions of income are different. The BEA income series includes some items not included in the income data shown in census publications, such as income "in kind," income received by nonprofit institutions, the value of services of

banks and other financial intermediaries rendered to persons without the assessment of specific charges, Medicare payments, and the income of persons who died or emigrated prior to April 1, 1990. On the other hand, the census income data include contributions for support received from persons not residing in the same household and employer contributions for social insurance.

INDUSTRY, OCCUPATION, AND CLASS OF WORKER

The data on industry, occupation, and class of worker were derived from answers to questionnaire items 28, 29, and 30 respectively. These questions were asked of a sample of persons. Information on industry relates to the kind of business conducted by a person's employing organization; occupation describes the kind of work the person does on the job.

For employed persons, the data refer to the person's job during the reference week. For those who worked at two or more jobs, the data refer to the job at which the person worked the greatest number of hours. For unemployed persons, the data refer to their last job. The industry and occupation statistics are derived from the detailed classification systems developed for the 1990 census as described below. The *Classified Index of Industries and Occupations* provided additional information on the industry and occupation classification systems.

Respondents provided the data for the tabulations by writing on the questionnaires descriptions of their industry and occupation. These descriptions were keyed and passed through automated coding software which assigned a portion of the written entries to categories in the classification system. The automated system assigned codes to 59 percent of the industry entries and 38 percent of the occupation entries.

Those cases not coded by the computer were referred to clerical staff in the Census Bureau's Kansas City processing office for coding. The clerical staff converted the written questionnaire descriptions to codes by comparing these descriptions to entries in the *Alphabetical Index of Industries and Occupations*. For the industry code, these coders also referred to an Employer Name List (formerly called Company Name List). This list, prepared from the Standard Statistical Establishment List developed by the Census Bureau for the economic censuses and surveys, contained the names of business establishments and their Standard Industrial Classification (SIC) codes converted to population census equivalents. This list facilitated coding and maintained industrial classification comparability.

Industry

The industry classification system developed for the 1990 census consists of 236 categories for employed persons, classified into 13 major industry groups. Since

1940, the industrial classification has been based on the Standard Industrial Classification Manual (SIC). The 1990 census classification was developed from the 1987 SIC published by the Office of Management and Budget, Executive Office of the President.

The SIC was designed primarily to classify establishments by the type of industrial activity in which they were engaged. However, census data, which were collected from households, differ in detail and nature from those obtained from establishment surveys. Therefore, the census classification systems, while defined in SIC terms, cannot reflect the full detail in all categories. There are several levels of industrial classification found in census products. For example, the 1990 CP-2, *Social and Economic Characteristics* report includes 41 unique industrial categories, while the 1990 Summary Tape File 4 (STF 4) presents 72 categories.

Occupation

The occupational classification system developed for the 1990 census consists of 501 specific occupational categories for employed persons arranged into 6 summary and 13 major occupational groups. This classification was developed to be consistent with the Standard Occupational Classification (SOC) Manual: 1980, published by the Office of Federal Statistical Policy and Standards, U.S. Department of Commerce. Tabulations with occupation as the primary characteristic present several levels of occupational detail. The most detailed tabulations are shown in a special 1990 subject report and tape files on occupation. These products contain all 501 occupational categories plus industry or class of worker subgroupings of occupational categories.

Some occupation groups are related closely to certain industries. Operators of transportation equipment, farm operators and workers, and private household workers account for major portions of their respective industries of transportation, agriculture, and private households. However, the industry categories include persons in other occupations. For example, persons employed in agriculture include truck drivers and bookkeepers; persons employed in the transportation industry include mechanics, freight handlers, and payroll clerks; and persons employed in the private household industry include occupations such as chauffeur, gardener, and secretary.

Class of Worker

The data on class of worker were derived from answers to questionnaire item 30. The information on class of worker refers to the same job as a respondent's industry and occupation and categorizes persons according to the type of ownership of the employing organization. The class of worker categories are defined as follows:

Private Wage and Salary Workers—Includes persons who worked for wages, salary, commission, tips, pay-in-kind, or piece rates for a private for profit employer or a

private not-for-profit, tax-exempt or charitable organization. Self-employed persons whose business was incorporated are included with private wage and salary workers because they are paid employees of their own companies. Some tabulations present data separately for these sub-categories: "For profit," "Not for profit," and "Own business incorporated."

Employees of foreign governments, the United Nations, or other formal international organizations were classified as "Private-not-for-profit."

Government Workers—Includes persons who were employees of any local, State, or Federal governmental unit, regardless of the activity of the particular agency. For some tabulations, the data were presented separately for the three levels of government.

Self-Employed Workers—Includes persons who worked for profit or fees in their own unincorporated business, profession, or trade, or who operated a farm.

Unpaid Family Workers—Includes persons who worked 15 hours or more without pay in a business or on a farm operated by a relative.

Salaried/Self-Employed—In tabulations that categorize persons as either salaried or self-employed, the salaried category includes private and government wage and salary workers; self-employed includes self-employed persons and unpaid family workers.

The industry category, "Public administration," is limited to regular government functions such as legislative, judicial, administrative, and regulatory activities of governments. Other government organizations such as schools, hospitals, liquor stores, and bus lines are classified by industry according to the activity in which they are engaged. On the other hand, the class of worker government categories include all government workers.

Occasionally respondents supplied industry, occupation, or class of worker descriptions which were not sufficiently specific for precise classification or did not report on these items at all. Some of these cases were corrected through the field editing process and during the coding and tabulation operations. In the coding operation, certain types of incomplete entries were corrected using the *Alphabetical Index of Industries and Occupations*. For example, it was possible in certain situations to assign an industry code based on the occupation reported.

Following the coding operations, there was a computer edit and an allocation process. The edit first determined whether a respondent was in the universe which required an industry and occupation code. The codes for the three items (industry, occupation, and class of worker) were checked to ensure they were valid and were edited for their relation to each other. Invalid and inconsistent codes were either blanked or changed to a consistent code.

If one or more of the three codes were blank after the edit, a code was assigned from a "similar" person based on other items such as age, sex, education, farm or nonfarm residence, and weeks worked. If all the labor force and income data also were blank, all these economic items were assigned from one other person who provided all the necessary data.

Comparability—Comparability of industry and occupation data was affected by a number of factors, primarily the systems used to classify the questionnaire responses. For both the industry and occupation classification systems, the basic structures were generally the same from 1940 to 1970, but changes in the individual categories limited comparability of the data from one census to another. These changes were needed to recognize the "birth" of new industries and occupations, the "death" of others, and the growth and decline in existing industries and occupations, as well as, the desire of analysts and other users for more detail in the presentation of the data. Probably the greatest cause of incomparability is the movement of a segment of a category to a different category in the next census. Changes in the nature of jobs and respondent terminology, and refinement of category composition made these movements necessary.

In the 1990 census, the industry classification had minor revisions to reflect recent changes to the SIC. The 1990 occupational classification system is essentially the same as that for the 1980 census. However, the conversion of the census classification to the SOC in 1980 meant that the 1990 classification system was less comparable to the classifications used prior to the 1980 census.

Other factors that affected data comparability included the universe to which the data referred (in 1970, the age cutoff for labor force was changed from 14 years to 16 years); how the industry and occupation questions were worded on the questionnaire (for example, important changes were made in 1970); improvements in the coding procedures (the Employer Name List technique was introduced in 1960); and how the "not reported" cases are handled. Prior to 1970, they were placed in the residual categories, "Industry not reported" and "Occupation not reported." In 1970, an allocation process was introduced that assigned these cases to major groups. In 1990, as in 1980, the "Not reported" cases were assigned to individual categories. Therefore, the 1980 and 1990 data for individual categories included some numbers of persons who were tabulated in a "Not reported" category in previous censuses.

The following publications contain information on the various factors affecting comparability and are particularly useful for understanding differences in the occupation and industry information from earlier censuses: U.S. Bureau of the Census, *Changes Between the 1950 and 1960 Occupation and Industry Classifications With Detailed Adjustments of 1950 Data to the 1960 Classifications*, Technical Paper No. 18, 1968; U.S. Bureau of the Census, *1970 Occupation and Industry Classification Systems in Terms of their 1960 Occupation and Industry Elements*, Technical

Paper No. 26, 1972; and U.S. Bureau of the Census, *The Relationship Between the 1970 and 1980 Industry and Occupation Classification Systems*, Technical Paper No. 59, 1988. For citations for earlier census years, see the 1980 Census of Population report, PC80-1-D, *Detailed Population Characteristics*.

The 1990 census introduced an additional class of worker category for "private not-for-profit" employers. This category is a subset of the 1980 category "employee of private employer" so there is no comparable data before 1990. Also in 1990, employees of foreign governments, the United Nations, etc., are classified as "private not-for-profit," rather than Federal Government as in 1970 and 1980. While in theory, there was a change in comparability, in practice, the small number of U.S. residents working for foreign governments made this change negligible.

Comparability between the statistics on industry and occupation from the 1990 census and statistics from other sources is affected by many of the factors described in the section on "Employment Status." These factors are primarily geographic differences between residence and place of work, different dates of reference, and differences in counts because of dual job holding. Industry data from population censuses cover all industries and all kinds of workers, whereas, data from establishments often excluded private household workers, government workers, and the self-employed. Also, the replies from household respondents may have differed in detail and nature from those obtained from establishments.

Occupation data from the census and data from government licensing agencies, professional associations, trade unions, etc., may not be as comparable as expected. Organizational listings often include persons not in the labor force or persons devoting all or most of their time to another occupation; or the same person may be included in two or more different listings. In addition, relatively few organizations, except for those requiring licensing, attained complete coverage of membership in a particular occupational field.

JOURNEY TO WORK

Place of Work

The data on place of work were derived from answers to questionnaire item 22, which was asked of persons who indicated in question 21 that they worked at some time during the reference week. (For more information, see discussion under "Reference Week.")

Data were tabulated for workers 16 years and over; that is, members of the Armed Forces and civilians who were at work during the reference week. Data on place of work refer to the geographic location at which workers carried out their occupational activities during the reference week. The exact address (number and street) of the place of work was asked, as well as the place (city, town, or post office); whether or not the place of work was inside or

outside the limits of that city or town; and the county, State, and ZIP Code. If the person's employer operated in more than one location, the exact address of the location or branch where the respondent worked was requested. When the number and street name were unknown, a description of the location, such as the building name or nearest street or intersection, was to be entered.

Persons who worked at more than one location during the reference week were asked to report the one at which they worked the greatest number of hours. Persons who regularly worked in several locations each day during the reference week were requested to give the address at which they began work each day. For cases in which daily work did not begin at a central place each day, the person was asked to provide as much information as possible to describe the area in which he or she worked most during the reference week.

In some tabulations, place-of-work locations may be defined as "in area of residence" and "outside area of residence." The area of residence may vary from table to table or even within a table, and refers to the particular area or areas shown. For example, in a table that provides data for counties, "in area of residence" refers to persons who worked in the same county in which they lived, while "outside area of residence" refers to persons whose workplace was located in a county different from the one in which they lived. Similarly, in a table that provides data for several types of areas, such as the State and its individual metropolitan areas (MA's), counties, and places, the place-of-work data will be variable and is determined by the geographic level (State, MA, county, or place) shown in each section of the tabulation.

In tabulations that present data for States, workplaces for the residents of the State may include, in addition to the State itself, each contiguous State. The category, "in noncontiguous State or abroad," includes persons who worked in a State that did not border their State of residence as well as persons who worked outside the United States.

In tabulations that present data for an MSA/PMSA, place-of-work locations are specified to show the main destinations of workers living in the MSA/PMSA. (For more information on metropolitan areas (MA's), see Appendix A, Area Classifications.) All place-of-work locations are identified with respect to the boundaries of the MSA/PMSA as "inside MSA/PMSA" or "outside MSA/PMSA." Locations within the MSA/PMSA are further divided into each central city, and each county or county balance. Selected large incorporated places also may be specified as places of work.

Within New England MSA/PMSA's, the places of work presented generally are cities and towns. Locations outside the MSA/PMSA are specified if they are important commuting destinations for residents of the MSA/PMSA, and may include adjoining MSA/PMSA's and their central cities, their component counties, large incorporated places, or counties, cities, or other geographic areas outside any MA. In tabulations for MSA/PMSA's in New England;

Honolulu, Hawaii; and certain other MA's, some place-of-work locations are identified as "areas" (e.g., Area 1, Area 5, Area 12, etc.). Such areas consist of groups of towns, cities, census designated places (Honolulu MSA only), or counties that have been identified as unique place-of-work destinations. When an adjoining MSA/PMSA or MSA/PMSA remainder is specified as a place-of-work location, its components are not defined. However, the components are presented in the 1990 CP-1, *General Population Characteristics for Metropolitan Areas* and the 1990 CH-1, *General Housing Characteristics for Metropolitan Areas* reports. In tabulations that present data for census tracts outside MA's, place-of-work locations are defined as "in county of residence" and "outside county of residence."

In areas where the workplace address was coded to the block level, persons were tabulated as working inside or outside a specific place based on the location of that address, regardless of the response to question 22c concerning city/town limits. In areas where it was impossible to code the workplace address to the block level, persons were tabulated as working in a place if a place name was reported in question 22b and the response to question 22c was either "Yes" or the item was left blank. In selected areas, census designated places (CDP's) may appear in the tabulations as places of work. The accuracy of place-of-work data for CDP's may be affected by the extent to which their census names were familiar to respondents, and by coding problems caused by similarities between the CDP name and the names of other geographic jurisdictions in the same vicinity.

Place-of-work data are given for selected minor civil divisions (generally, cities, towns, and townships) in the nine Northeastern States, based on the responses to the place-of-work question. Many towns and townships are regarded locally as equivalent to a place and therefore, were reported as the place of work. When a respondent reported a locality or incorporated place that formed a part of a township or town, the coding and tabulating procedure was designed to include the response in the total for the township or town. The accuracy of the place-of-work data for minor civil divisions is greatest for the New England States. However, the data for some New England towns, for towns in New York, and for townships in New Jersey and Pennsylvania may be affected by coding problems that resulted from the unfamiliarity of the respondent with the minor civil division in which the workplace was located or when a township and a city or borough of the same or similar name are located close together.

Place-of-work data may show a few workers who made unlikely daily work trips (e.g., workers who lived in New York and worked in California). This result is attributable to persons who worked during the reference week at a location that was different from their usual place of work, such as persons away from home on business.

Comparability—The wording of the question on place of work was substantially the same in the 1990 census as it was in 1980. However, data on place of work from the

1990 census are based on the full census sample, while data from the 1980 census were based on only about one-half of the full sample.

For the 1980 census, nonresponse or incomplete responses to the place-of-work question were not allocated, resulting in the use of "not reported" categories in the 1980 publications. However, for the 1990 census, when place of work was not reported or the response was incomplete, a work location was allocated to the person based on their means of transportation to work, travel time to work, industry, and location of residence and workplace of others. The 1990 publications, therefore, do not contain a "not reported" category for the place-of-work data.

Comparisons between 1980 and 1990 census data on the gross number of workers in particular commuting flows, or the total number of persons working in an area, should be made with extreme caution. Any apparent increase in the magnitude of the gross numbers may be due solely to the fact that for 1990 the "not reported" cases have been distributed among specific place-of-work destinations, instead of tallied in a separate category as in 1980.

Limitation of the Data—The data on place of work relate to a reference week; that is, the calendar week preceding the date on which the respondents completed their questionnaires or were interviewed by enumerators. This week is not the same for all respondents because the enumeration was not completed in 1 week. However, for the majority of persons, the reference week for the 1990 census is the last week in March 1990. The lack of a uniform reference week means that the place-of-work data reported in the census will not exactly match the distribution of workplace locations observed or measured during an actual workweek.

The place-of-work data are estimates of persons 16 years old and over who were both employed and at work during the reference week (including persons in the Armed Forces). Persons who did not work during the reference week but had jobs or businesses from which they were temporarily absent due to illness, bad weather, industrial dispute, vacation, or other personal reasons are not included in the place-of-work data. Therefore, the data on place of work understate the total number of jobs or total employment in a geographic area during the reference week. It also should be noted that persons who had irregular, casual, or unstructured jobs during the reference week may have erroneously reported themselves as not working.

The address where the individual worked most often during the reference week was recorded on the census questionnaire. If a worker held two jobs, only data about the primary job (the one worked the greatest number of hours during the preceding week) was requested. Persons who regularly worked in several locations during the reference week were requested to give the address at which they began work each day. For cases in which daily work was not begun at a central place each day, the person was

asked to provide as much information as possible to describe the area in which he or she worked most during the reference week.

Means of Transportation to Work

The data on means of transportation to work were derived from answers to questionnaire item 23a, which was asked of persons who indicated in question 21 that they worked at some time during the reference week. (For more information, see discussion under "Reference Week.") Means of transportation to work refers to the principal mode of travel or type of conveyance that the person usually used to get from home to work during the reference week.

Persons who used different means of transportation on different days of the week were asked to specify the one they used most often, that is, the greatest number of days. Persons who used more than one means of transportation to get to work each day were asked to report the one used for the longest distance during the work trip. The category, "Car, truck, or van," includes workers using a car (including company cars but excluding taxicabs), a truck of one-ton capacity or less, or a van. The category, "Public transportation," includes workers who used a bus or trolley bus, streetcar or trolley car, subway or elevated, railroad, ferryboat, or taxicab even if each mode is not shown separately in the tabulation. The category, "Other means," includes workers who used a mode of travel which is not identified separately within the data distribution. The category, "Other means," may vary from table to table, depending on the amount of detail shown in a particular distribution.

The means of transportation data for some areas may show workers using modes of public transportation that are not available in those areas (e.g., subway or elevated riders in an MA where there actually is no subway or elevated service). This result is largely due to persons who worked during the reference week at a location that was different from their usual place of work (such as persons away from home on business in an area where subway service was available) and persons who used more than one means of transportation each day but whose principal means was unavailable where they lived (for example, residents of nonmetropolitan areas who drove to the fringe of an MA and took the commuter railroad most of the distance to work).

Private Vehicle Occupancy

The data on private vehicle occupancy were derived from answers to questionnaire item 23b. This question was asked of persons who indicated in question 21 that they worked at some time during the reference week and who reported in question 23a that their means of transportation to work was "Car, truck, or van." (For more information, see discussion under "Reference Week.")

Private vehicle occupancy refers to the number of persons who usually rode to work in the vehicle during the reference week. The category, "Drove alone," includes persons who usually drove alone to work as well as persons who were driven to work by someone who then drove back home or to a nonwork destination. The category, "Carpooled," includes workers who reported that two or more persons usually rode to work in the vehicle during the reference week.

Persons Per Car, Truck, or Van—This is obtained by dividing the number of persons who reported using a car, truck, or van to get to work by the number of such vehicles that they used. The number of vehicles used is derived by counting each person who drove alone as one vehicle, each person who reported being in a two-person carpool as one-half vehicle, each person who reported being in a three-person carpool as one-third vehicle, and so on, and then summing all the vehicles.

Time Leaving Home to Go to Work

The data on time leaving home to go to work were derived from answers to questionnaire item 24a. This question was asked of persons who indicated in question 21 that they worked at some time during the reference week and who reported in question 23a that they worked outside their home. The departure time refers to the time of day that the person usually left home to go to work during the reference week. (For more information, see discussion under "Reference Week.")

Travel Time to Work

The data on travel time to work were derived from answers to questionnaire item 24b. This question was asked of persons who indicated in question 21 that they worked at some time during the reference week and who reported in question 23a that they worked outside their home. Travel time to work refers to the total number of minutes that it usually took the person to get from home to work during the reference week. The elapsed time includes time spent waiting for public transportation, picking up passengers in carpools, and time spent in other activities related to getting to work. (For more information, see discussion under "Reference Week.")

LANGUAGE SPOKEN AT HOME AND ABILITY TO SPEAK ENGLISH

Language Spoken at Home

Data on language spoken at home were derived from the answers to questionnaire items 15a and 15b, which were asked of a sample of persons born before April 1, 1985. Instructions mailed with the 1990 census questionnaire stated that a respondent should mark "Yes" in

question 15a if the person sometimes or always spoke a language other than English at home and should not mark "Yes" if a language was spoken only at school or if speaking was limited to a few expressions or slang. For question 15b, respondents were instructed to print the name of the non-English language spoken at home. If the person spoke more than one language other than English, the person was to report the language spoken more often or the language learned first.

The cover of the census questionnaire included information in Spanish which provided a telephone number for respondents to call to request a census questionnaire and instructions in Spanish. Instruction guides were also available in 32 other languages to assist enumerators who encountered households or respondents who spoke no English.

Questions 15a and 15b referred to languages spoken at home in an effort to measure the current use of languages other than English. Persons who knew languages other than English but did not use them at home or who only used them elsewhere were excluded. Persons who reported speaking a language other than English at home may also speak English; however, the questions did not permit determination of the main or dominant language of persons who spoke both English and another language. (For more information, see discussion below on "Ability to Speak English.")

For persons who indicated that they spoke a language other than English at home in question 15a, but failed to specify the name of the language in question 15b, the language was assigned based on the language of other speakers in the household; on the language of a person of the same Spanish origin or detailed race group living in the same or a nearby area; or on a person of the same ancestry or place of birth. In all cases where a person was assigned a non-English language, it was assumed that the language was spoken at home. Persons for whom the name of a language other than English was entered in question 15b, and for whom question 15a was blank were assumed to speak that language at home.

The write-in responses listed in question 15b (specific language spoken) were transcribed onto computer files and coded into more than 380 detailed language categories using an automated coding system. The automated procedure compared write-in responses reported by respondents with entries in a computer dictionary, which initially contained approximately 2,000 language names. The dictionary was updated with a large number of new names, variations in spelling, and a small number of residual categories. Each write-in response was given a numeric code that was associated with one of the detailed categories in the dictionary. If the respondent listed more than one non-English language, only the first was coded.

The write-in responses represented the names people used for languages they speak. They may not match the names or categories used by linguists. The sets of categories used are sometimes geographic and sometimes linguistic. Figure 1 provides an illustration of the content of

the classification schemes used to present language data. For more information, write to the Chief, Population Division, U.S. Bureau of the Census, Washington, DC 20233.

Household Language—In households where one or more persons (age 5 years old or over) speak a language other than English, the household language assigned to all household members is the non-English language spoken by the first person with a non-English language in the following order: householder, spouse, parent, sibling, child, grandchild, other relative, stepchild, unmarried partner, housemate or roommate, roomer, boarder, or foster child, or other nonrelative. Thus, persons who speak only English may have a non-English household language assigned to them in tabulations of persons by household language.

Figure 1. Four- and Twenty-Five-Group Classifications of 1990 Census Languages Spoken at Home With Illustrative Examples

Four-Group Classification	Twenty-Five-Group Classification	Examples
Spanish	Spanish	Spanish, Ladino
Other Indo-European	French	French, Cajun, French Creole
	Italian	
	Portuguese	
	German	
	Yiddish	
	Other West Germanic	Afrikaans, Dutch, Pennsylvania Dutch
	Scandinavian	Danish, Norwegian, Swedish
	Polish	
	Russian	Serbocroatian, Bulgarian, Macedonian, Slovene
	South Slavic	Czech, Slovak, Ukrainian
Languages of Asia and the Pacific	Other Slavic	
	Greek	
	Indic	Hindi, Bengali, Gujarathi, Punjabi, Romany, Sinhalese
	Other Indo-European, not elsewhere classified	Armenian, Gaelic, Lithuanian, Persian
	Chinese	
	Japanese	
	Mon-Khmer	Cambodian
	Tagalog	
	Korean	
	Vietnamese	Chamorro, Dravidian Languages, Hawaiian, Ilocano, Thai, Turkish
All other languages	Other languages (part)	
	Arabic	
	Hungarian	
	Native North American languages	
	Other languages (part)	Amharic, Syriac, Finnish, Hebrew, Languages of Central and South America, Other Languages of Africa

Ability to Speak English

Persons 5 years old and over who reported that they spoke a language other than English in question 15a were also asked in question 15c to indicate their ability to speak English based on one of the following categories: "Very well," "Well," "Not well," or "Not at all."

The data on ability to speak English represent the person's own perception about his or her own ability or, because census questionnaires are usually completed by one household member, the responses may represent the perception of another household member. The instruction guides and questionnaires that were mailed to households did not include any information on how to interpret the response categories in question 15c.

Persons who reported that they spoke a language other than English at home but whose ability to speak English was not reported, were assigned the English-language ability of a randomly selected person of the same age, Spanish origin, nativity and year of entry, and language group.

Linguistic Isolation—A household in which no person age 14 years or over speaks only English and no person age 14 years or over who speaks a language other than English speaks English "Very well" is classified as "linguistically isolated." All the members of a linguistically isolated household are tabulated as linguistically isolated, including members under age 14 years who may speak only English.

Limitation of the Data—Persons who speak a language other than English at home may have first learned that language at school. However, these persons would be expected to indicate that they spoke English "Very well." Persons who speak a language other than English, but do not do so at home, should have been reported as not speaking a language other than English at home.

The extreme detail in which language names were coded may give a false impression of the linguistic precision of these data. The names used by speakers of a language to identify it may reflect ethnic, geographic, or political affiliations and do not necessarily respect linguistic distinctions. The categories shown in the tabulations were chosen on a number of criteria, such as information about the number of speakers of each language that might be expected in a sample of the United States population.

Comparability—Information on language has been collected in every census since 1890. The comparability of data among censuses is limited by changes in question wording, by the subpopulations to whom the question was addressed, and by the detail that was published.

The same question on language was asked in the 1980 and 1990 censuses. This question on the current language spoken at home replaced the questions asked in prior

censuses on mother tongue; that is, the language other than English spoken in the person's home when he or she was a child; one's first language; or the language spoken before immigrating to the United States. The censuses of 1910-1940, 1960 and 1970 included questions on mother tongue. A change in coding procedure from 1980 to 1990 should have improved accuracy of coding and may affect the number of persons reported in some of the 380 plus categories. It should not greatly affect the 4-group or 25-group lists. In 1980, coding clerks supplied numeric codes for the written entries on each questionnaire using a 2,000 name reference list. In 1990 written entries were transcribed to a computer file and matched to a computer dictionary which began with the 2,000 name list, but expanded as unmatched names were referred to headquarters specialists for resolution.

The question on ability to speak English was asked for the first time in 1980. In tabulations from 1980, the categories "Very well" and "Well" were combined. Data from other surveys suggested a major difference between the category "Very well" and the remaining categories. In tabulations showing ability to speak English, persons who reported that they spoke English "Very well" are presented separately from persons who reported their ability to speak English as less than "Very well."

MARITAL STATUS

The data on marital status were derived from answers to questionnaire item 6, which was asked of all persons. The marital status classification refers to the status at the time of enumeration. Data on marital status are tabulated only for persons 15 years old and over.

All persons were asked whether they were "now married," "widowed," "divorced," "separated," or "never married." Couples who live together (unmarried persons, persons in common-law marriages) were allowed to report the marital status they considered the most appropriate.

Never Married—Includes all persons who have never been married, including persons whose only marriage(s) was annulled.

Ever Married—Includes persons married at the time of enumeration (including those separated), widowed, or divorced.

Now Married, Except Separated—Includes persons whose current marriage has not ended through widowhood, divorce, or separation (regardless of previous marital history). The category may also include couples who live together or persons in common-law marriages if they consider this category the most appropriate. In certain tabulations, currently married persons are further classified as "spouse present" or "spouse absent."

Separated—Includes persons legally separated or otherwise absent from their spouse because of marital discord. Included are persons who have been deserted or who have parted because they no longer want to live together but who have not obtained a divorce.

Widowed—Includes widows and widowers who have not remarried.

Divorced—Includes persons who are legally divorced and who have not remarried.

In selected sample tabulations, data for married and separated persons are reorganized and combined with information on the presence of the spouse in the same household.

Now Married—All persons whose current marriage has not ended by widowhood or divorce. This category includes persons defined above as "separated."

Spouse Present—Married persons whose wife or husband was enumerated as a member of the same household, including those whose spouse may have been temporarily absent for such reasons as travel or hospitalization.

Spouse Absent—Married persons whose wife or husband was not enumerated as a member of the same household. This category also includes all married persons living in group quarters.

Separated—Defined above.

Spouse Absent, Other—Married persons whose wife or husband was not enumerated as a member of the same household, excluding separated. Included is any person whose spouse was employed and living away from home or in an institution or absent in the Armed Forces.

Differences between the number of currently married males and the number of currently married females occur because of reporting differences and because some husbands and wives have their usual residence in different areas. In sample tabulations, these differences can also occur because different weights are applied to the individual's data. Any differences between the number of "now married, spouse present" males and females are due solely to sample weighting. By definition, the numbers would be the same.

When marital status was not reported, it was imputed according to the relationship to the householder and sex and age of the person. (For more information on imputation, see Appendix C, Accuracy of the Data.)

Comparability—The 1990 marital status definitions are the same as those used in 1980 with the exception of the term "never married" which replaces the term "single" in tabulations. A general marital status question has been asked in every census since 1880.

MOBILITY LIMITATION STATUS

The data on mobility limitation status were derived from answers to questionnaire item 19a, which was asked of a sample of persons 15 years old and over. Persons were

identified as having a mobility limitation if they had a health condition that had lasted for 6 or more months and which made it difficult to go outside the home alone. Examples of outside activities on the questionnaire included shopping and visiting the doctor's office.

The term "health condition" referred to both physical and mental conditions. A temporary health problem, such as a broken bone that was expected to heal normally, was not considered a health condition.

Comparability—This was the first time that a question on mobility limitation was included in the census.

PLACE OF BIRTH

The data on place of birth were derived from answers to questionnaire item 8, which was asked on a sample basis. The place-of-birth question asked respondents to report the U.S. State, commonwealth or territory, or the foreign country where they were born. Persons born outside the United States were asked to report their place of birth according to current international boundaries. Since numerous changes in boundaries of foreign countries have occurred in the last century, some persons may have reported their place of birth in terms of boundaries that existed at the time of their birth or emigration, or in accordance with their own national preference.

Persons not reporting place of birth were assigned the birthplace of another family member or were allocated the response of another person with similar characteristics. Persons allocated as foreign born were not assigned a specific country of birth but were classified as "Born abroad, country not specified."

Nativity—Information on place of birth and citizenship were used to classify the population into two major categories: native and foreign born. When information on place of birth was not reported, nativity was assigned on the basis of answers to citizenship, if reported, and other characteristics.

Native—Includes persons born in the United States, Puerto Rico, or an outlying area of the United States. The small number of persons who were born in a foreign country but have at least one American parent also are included in this category.

The native population is classified in the following groups: persons born in the State in which they resided at the time of the census; persons born in a different State, by region; persons born in Puerto Rico or an outlying area of the U.S.; and persons born abroad with at least one American parent.

Foreign Born—Includes persons not classified as "Native." Prior to the 1970 census, persons not reporting place of birth were generally classified as native.

The foreign-born population is shown by selected area, country, or region of birth; the places of birth shown in data products were selected based on the number of respondents who reported that area or country of birth.

Comparability—Data on the State of birth of the native population have been collected in each census beginning with that of 1850. Similar data were shown in tabulations for the 1980 census and other recent censuses. Nonresponse was allocated in a similar manner in 1980; however, prior to 1980, nonresponse to the place of birth question was not allocated. Prior to the 1970 census, persons not reporting place of birth were generally classified as native.

The questionnaire instruction to report mother's State of residence instead of the person's actual State of birth (if born in a hospital in a different State) was dropped in 1990. Evaluation studies of 1970 and 1980 census data demonstrated that this instruction was generally either ignored or misunderstood. Since the hospital and the mother's residence is in the same State for most births, this change may have a slight effect on State of birth data for States with large metropolitan areas that straddle State lines.

POVERTY STATUS IN 1989

The data on poverty status were derived from answers to the same questions as the income data, questionnaire items 32 and 33. (For more information, see the discussion under "Income in 1989.") Poverty statistics presented in census publications were based on a definition originated by the Social Security Administration in 1964 and subsequently modified by Federal interagency committees in 1969 and 1980 and prescribed by the Office of Management and Budget in Directive 14 as the standard to be used by Federal agencies for statistical purposes.

At the core of this definition was the 1961 economy food plan, the least costly of four nutritionally adequate food plans designed by the Department of Agriculture. It was determined from the Agriculture Department's 1955 survey of food consumption that families of three or more persons spend approximately one-third of their income on food; hence, the poverty level for these families was set at three times the cost of the economy food plan. For smaller families and persons living alone, the cost of the economy food plan was multiplied by factors that were slightly higher to compensate for the relatively larger fixed expenses for these smaller households.

The income cutoffs used by the Census Bureau to determine the poverty status of families and unrelated individuals included a set of 48 thresholds arranged in a two-dimensional matrix consisting of family size (from one person to nine or more persons) cross-classified by presence and number of family members under 18 years old (from no children present to eight or more children present). Unrelated individuals and two-person families were further differentiated by age of the householder (under 65 years old and 65 years old and over).

The total income of each family or unrelated individual in the sample was tested against the appropriate poverty threshold to determine the poverty status of that family or unrelated individual. If the total income was less than the corresponding cutoff, the family or unrelated individual was classified as "below the poverty level." The number of persons below the poverty level was the sum of the number of persons in families with incomes below the poverty level and the number of unrelated individuals with incomes below the poverty level.

The poverty thresholds are revised annually to allow for changes in the cost of living as reflected in the Consumer Price Index. The average poverty threshold for a family of four persons was \$12,674 in 1989. (For more information, see table A below.) Poverty thresholds were applied on a national basis and were not adjusted for regional, State or local variations in the cost of living. For a detailed discussion of the poverty definition, see U.S. Bureau of the Census, *Current Population Reports, Series P-60, No. 171, Poverty in the United States: 1988 and 1989*.

Persons for Whom Poverty Status is Determined—

Poverty status was determined for all persons except institutionalized persons, persons in military group quarters and in college dormitories, and unrelated individuals under 15 years old. These groups also were excluded from the denominator when calculating poverty rates.

Specified Poverty Levels—Since the poverty levels currently in use by the Federal Government do not meet all the needs of data users, some of the data are presented for alternate levels. These specified poverty levels are obtained by multiplying the income cutoffs at the poverty level by the appropriate factor. For example, the average income cutoff at 125 percent of poverty level was \$15,843 ($\$12,674 \times 1.25$) in 1989 for a family of four persons.

Weighted Average Thresholds at the Poverty Level—

The average thresholds shown in the first column of table A are weighted by the presence and number of children. For example, the weighted average threshold for a given family size is obtained by multiplying the threshold for each presence and number of children category within the given family size by the number of families in that category. These products are then aggregated across the entire range of presence and number of children categories, and the aggregate is divided by the total number of families in the group to yield the weighted average threshold at the poverty level for that family size.

Since the basic thresholds used to determine the poverty status of families and unrelated individuals are applied to all families and unrelated individuals, the weighted average poverty thresholds are derived using all families and unrelated individuals rather than just those classified as being below the poverty level. To obtain the weighted poverty thresholds for families and unrelated individuals below alternate poverty levels, the weighted thresholds

shown in table A may be multiplied directly by the appropriate factor. The weighted average thresholds presented in the table are based on the March 1990 Current Population Survey. However, these thresholds would not differ significantly from those based on the 1990 census.

Income Deficit—Represents the difference between the total income of families and unrelated individuals below the poverty level and their respective poverty thresholds. In computing the income deficit, families reporting a net income loss are assigned zero dollars and for such cases the deficit is equal to the poverty threshold.

This measure provided an estimate of the amount which would be required to raise the incomes of all poor families and unrelated individuals to their respective poverty thresholds. The income deficit is thus a measure of the degree of impoverishment of a family or unrelated individual. However, caution must be used in comparing the average deficits of families with different characteristics. Apparent differences in average income deficits may, to some extent, be a function of differences in family size.

Mean Income Deficit—Represents the amount obtained by dividing the total income deficit of a group below the poverty level by the number of families (or unrelated individuals) in that group.

Comparability—The poverty definition used in the 1990 and 1980 censuses differed slightly from the one used in the 1970 census. Three technical modifications were made to the definition used in the 1970 census as described below:

1. The separate thresholds for families with a female householder with no husband present and all other families were eliminated. For the 1980 and 1990 censuses, the weighted average of the poverty thresholds for these two types of families was applied to all types of families, regardless of the sex of the householder.

2. Farm families and farm unrelated individuals no longer had a set of poverty thresholds that were lower than the thresholds applied to nonfarm families and unrelated individuals. The farm thresholds were 85 percent of the corresponding levels for nonfarm families in the 1970 census. The same thresholds were applied to all families and unrelated individuals regardless of residence in 1980 and 1990.

3. The thresholds by size of family were extended from seven or more persons in 1970 to nine or more persons in 1980 and 1990.

These changes resulted in a minimal increase in the number of poor at the national level. For a complete discussion of these modifications and their impact, see the Current Population Reports, Series P-60, No. 133.

The population covered in the poverty statistics derived from the 1980 and 1990 censuses was essentially the same as in the 1970 census. The only difference was that in 1980 and 1990, unrelated individuals under 15 years old were excluded from the poverty universe, while in 1970, only those under 14 years old were excluded. The poverty data from the 1960 census excluded all persons in group quarters and included all unrelated individuals regardless of age. It was unlikely that these differences in population coverage would have had significant impact when comparing the poverty data for persons since the 1960 censuses.

Current Population Survey—Because of differences in the questionnaires and data collection procedures, estimates of the number of persons below the poverty level by various characteristics from the 1990 census may differ from those reported in the March 1990 Current Population Survey.

RACE

The data on race were derived from answers to questionnaire item 4, which was asked of all persons. The concept of race as used by the Census Bureau reflects

Table A. Poverty Thresholds in 1989 by Size of Family and Number of Related Children Under 18 Years

Size of Family Unit	Weighted average thresholds	Related children under 18 years								
		None	One	Two	Three	Four	Five	Six	Seven	Eight or more
One person (unrelated individual).	\$6,310									
Under 65 years.....	6,451	\$6,451								
65 years and over.....	5,947	5,947								
Two persons.....	8,076									
Householder under 65 years...	8,343	8,303	\$8,547							
Householder 65 years and over.....	7,501	7,495	8,515							
Three persons.....	9,885	9,699	9,981	\$9,990						
Four persons.....	12,674	12,790	12,999	12,575	\$12,619					
Five persons.....	14,990	15,424	15,648	15,169	14,798	\$14,572				
Six persons.....	16,921	17,740	17,811	17,444	17,092	16,569	\$16,259			
Seven persons.....	19,162	20,412	20,540	20,101	19,794	19,224	18,558	\$17,828		
Eight persons.....	21,328	22,830	23,031	22,617	22,253	21,738	21,084	20,403	\$20,230	
Nine or more persons.....	25,480	27,463	27,596	27,229	26,921	26,415	25,719	25,089	24,933	\$23,973

self-identification; it does not denote any clear-cut scientific definition of biological stock. The data for race represent self-classification by people according to the race with which they most closely identify. Furthermore, it is recognized that the categories of the race item include both racial and national origin or socio-cultural groups.

During direct interviews conducted by enumerators, if a person could not provide a single response to the race question, he or she was asked to select, based on self-identification, the group which best described his or her racial identity. If a person could not provide a single race response, the race of the mother was used. If a single race response could not be provided for the person's mother, the first race reported by the person was used. In all cases where occupied housing units, households, or families are classified by race, the race of the householder was used.

The racial classification used by the Census Bureau generally adheres to the guidelines in Federal Statistical Directive No. 15, issued by the Office of Management and Budget, which provides standards on ethnic and racial categories for statistical reporting to be used by all Federal agencies. The racial categories used in the 1990 census data products are provided below.

White—Includes persons who indicated their race as "White" or reported entries such as Canadian, German, Italian, Lebanese, Near Easterner, Arab, or Polish.

Black—Includes persons who indicated their race as "Black or Negro" or reported entries such as African American, Afro-American, Black Puerto Rican, Jamaican, Nigerian, West Indian, or Haitian.

American Indian, Eskimo, or Aleut—Includes persons who classified themselves as such in one of the specific race categories identified below.

American Indian—Includes persons who indicated their race as "American Indian," entered the name of an Indian tribe, or reported such entries as Canadian Indian, French-American Indian, or Spanish-American Indian.

American Indian Tribe—Persons who identified themselves as American Indian were asked to report their enrolled or principal tribe. Therefore, tribal data in tabulations reflect the written tribal entries reported on the questionnaires. Some of the entries (for example, Iroquois, Sioux, Colorado River, and Flat-head) represent nations or reservations.

The information on tribe is based on self-identification and therefore does not reflect any designation of Federally- or State-recognized tribe. Information on American Indian tribes is presented in summary tape files and special data products. The information is derived from the American Indian Detailed Tribal

Classification List for the 1990 census. The classification list represents all tribes, bands, and clans that had a specified number of American Indians reported on the census questionnaire.

Eskimo—Includes persons who indicated their race as "Eskimo" or reported entries such as Arctic Slope, Inupiat, and Yupik.

Aleut—Includes persons who indicated their race as "Aleut" or reported entries such as Alutiiq, Egegik, and Pribilofian.

Asian or Pacific Islander—Includes persons who reported in one of the Asian or Pacific Islander groups listed on the questionnaire or who provided write-in responses such as Thai, Nepali, or Tongan. A more detailed listing of the groups comprising the Asian or Pacific Islander population is presented in figure 2 below. In some data products, information is presented separately for the Asian population and the Pacific Islander population.

Asian—Includes "Chinese," "Filipino," "Japanese," "Asian Indian," "Korean," "Vietnamese," and "Other Asian." In some tables, "Other Asian" may not be shown separately, but is included in the total Asian population.

Chinese—Includes persons who indicated their race as "Chinese" or who identified themselves as Cantonese, Tibetan, or Chinese American. In standard census reports, persons who reported as "Taiwanese" or "Formosan" are included here with Chinese. In special reports on the Asian or Pacific Islander population, information on persons who identified themselves as Taiwanese are shown separately.

Filipino—Includes persons who indicated their race as "Filipino" or reported entries such as Philipino, Philippine, or Filipino American.

Japanese—Includes persons who indicated their race as "Japanese" and persons who identified themselves as Nipponese or Japanese American.

Asian Indian—Includes persons who indicated their race as "Asian Indian" and persons who identified themselves as Bengalese, Bharat, Dravidian, East Indian, or Goanese.

Korean—Includes persons who indicated their race as "Korean" and persons who identified themselves as Korean American.

Vietnamese—Includes persons who indicated their race as "Vietnamese" and persons who identified themselves as Vietnamese American.

Cambodian—Includes persons who provided a write-in response such as Cambodian or Cambodia.

Hmong—Includes persons who provided a write-in response such as Hmong, Laohmong, or Mong.

Laotian—Includes persons who provided a write-in response such as Laotian, Laos, or Lao.

Thai—Includes persons who provided a write-in response such as Thai, Thailand, or Siamese.

Other Asian—Includes persons who provided a write-in response of Bangladeshi, Burmese, Indonesian, Pakistani, Sri Lankan, Amerasian, or Eurasian. See figure 2 for other groups comprising "Other Asian."

Pacific Islander—Includes persons who indicated their race as "Pacific Islander" by classifying themselves into one of the following groups or identifying themselves as one of the Pacific Islander cultural groups of Polynesian, Micronesian, or Melanesian.

Hawaiian—Includes persons who indicated their race as "Hawaiian" as well as persons who identified themselves as Part Hawaiian or Native Hawaiian.

Samoa—Includes persons who indicated their race as "Samoa" or persons who identified themselves as American Samoa or Western Samoa.

Guamanian—Includes persons who indicated their race as "Guamanian" or persons who identified themselves as Chamorro or Guam.

Other Pacific Islander—Includes persons who provided a write-in response of a Pacific Islander group such as Tahitian, Northern Mariana Islander, Palauan, Fijian, or a cultural group such as Polynesian, Micronesian, or Melanesian. See figure 2 for other groups comprising "Other Pacific Islander."

Other Race—Includes all other persons not included in the "White," "Black," "American Indian, Eskimo, or Aleut," and the "Asian or Pacific Islander" race categories described above. Persons reporting in the "Other race" category and providing write-in entries such as multiracial, multiethnic, mixed, interracial, Wesort, or a Spanish/Hispanic origin group (such as Mexican, Cuban, or Puerto Rican) are included here.

Written entries to three categories on the race item—"Indian (Amer.)," "Other Asian or Pacific Islander (API)," and "Other race"—were reviewed, edited, and coded by subject matter specialists. (For more information on the coding operation, see the section below that discusses "Comparability.")

The written entries under "Indian (Amer.)," and "Other Asian or Pacific Islander (API)" were reviewed and coded during 100-percent processing of the 1990 census questionnaires. A substantial portion of the entries for the "Other race" category also were reviewed, edited, and coded during the 100-percent processing. The remaining entries under "Other race" underwent review and coding during sample processing. Most of the written entries reviewed and coded during sample processing were those indicating Hispanic origin such as Mexican, Cuban, or Puerto Rican.

If the race entry for a member of a household was missing on the questionnaire, race was assigned based upon the reported entries of race by other household members using specific rules of precedence of household relationship. For example, if race was missing for the daughter of the householder, then the race of her mother (as female householder or female spouse) would be assigned. If there was no female householder or spouse in the household, the daughter would be assigned her father's (male householder) race. If race was not reported for anyone in the household, the race of a householder in a previously processed household was assigned. This procedure is a variation of the general imputation procedures described in Appendix C, Accuracy of the Data.

Limitation of the Data—In the 1980 census, a relatively high proportion (20 percent) of American Indians did not report any tribal entry in the race item. Evaluation of the pre-census tests indicated that changes made for the 1990 race item should improve the reporting of tribes in the rural areas (especially on reservations) for the 1990 census. The results for urban areas were inconclusive. Also, the precensus tests indicated that there may be overreporting of the Cherokee tribe. An evaluation of 1980 census data showed overreporting of Cherokee in urban areas or areas where the number of American Indians was sparse.

In the 1990 census, respondents sometimes did not fill in a circle or filled the "Other race" circle and wrote in a response, such as Arab, Polish, or African American in the shared write-in box for "Other race" and "Other API" responses. During the automated coding process, these responses were edited and assigned to the appropriate racial designation. Also, some Hispanic origin persons did not fill in a circle, but provided entries such as Mexican or Puerto Rican. These persons were classified in the "Other race" category during the coding and editing process. There may be some minor differences between sample data and 100-percent data because sample processing included additional edits not included in the 100-percent processing.

Figure 2. Asian or Pacific Islander Groups Reported in the 1990 Census

Asian	Pacific Islander
Chinese	Hawaiian
Filipino	Samoa
Japanese	Guamanian
Asian Indian	Other Pacific Islander ¹
Korean	Carolinian
Vietnamese	Fijian
Cambodian	Kosraean
Hmong	Melanesian ³
Laotian	Micronesian ³
Thai	Northern Mariana Islander
Other Asian ¹	Palauan
Bangladeshi	Papua New Guinean
Bhutanese	Ponapean (Pohnpeian)
Borneo	Polynesian ³
Burmese	Solomon Islander
Celebesian	Tahitian
Ceram	Tarawa Islander
Indochinese	Tokelauan
Indonesian	Tongan
Iwo-Jiman	Trukese (Chuukese)
Javanese	Yapese
Malayan	Pacific Islander, not specified
Maldivian	
Nepali	
Okinawan	
Pakistani	
Sikkim	
Singaporean	
Sri Lankan	
Sumatran	
Asian, not specified ²	

¹In some data products, specific groups listed under "Other Asian" or "Other Pacific Islander" are shown separately. Groups not shown are tabulated as "All other Asian" or "All other Pacific Islander," respectively.

²Includes entries such as Asian American, Asian, Asiatic, Amerasian, and Eurasian.

³Polynesian, Micronesian, and Melanesian are Pacific Islander cultural groups.

Comparability—Differences between the 1990 census and earlier censuses affect the comparability of data for certain racial groups and American Indian tribes. The 1990 census was the first census to undertake, on a 100-percent basis, an automated review, edit, and coding operation for written responses to the race item. The automated coding system used in the 1990 census greatly reduced the potential for error associated with a clerical review. Specialists with a thorough knowledge of the race subject matter reviewed, edited, coded, and resolved inconsistent or incomplete responses. In the 1980 census, there was only a limited clerical review of the race responses on the 100-percent forms with a full clerical review conducted only on the sample questionnaires.

Another major difference between the 1990 and preceding censuses is the handling of the write-in responses for the Asian or Pacific Islander populations. In addition to the nine Asian or Pacific Islander categories shown on the questionnaire under the spanner "Asian or Pacific Islander (API)," the 1990 census race item provided a new residual category, "Other API," for Asian or Pacific Islander persons who did not report in one of the listed Asian or Pacific

Islander groups. During the coding operation, write-in responses for "Other API" were reviewed, coded, and assigned to the appropriate classification. For example, in 1990, a write-in entry of Laotian, Thai, or Javanese is classified as "Other Asian," while a write-in entry of Tongan or Fijian is classified as "Other Pacific Islander." In the 1990 census, these persons were able to identify as "Other API" in both the 100-percent and sample operations.

In the 1980 census, the nine Asian or Pacific Islander groups were also listed separately. However, persons not belonging to these nine groups wrote in their specific racial group under the "Other" race category. Persons with a written entry such as Laotian, Thai, or Tongan, were tabulated and published as "Other race" in the 100-percent processing operation in 1980, but were reclassified as "Other Asian and Pacific Islander" in 1980 sample tabulations. In 1980 special reports on the Asian or Pacific Islander populations, data were shown separately for "Other Asian" and "Other Pacific Islander."

The 1970 questionnaire did not have separate race categories for Asian Indian, Vietnamese, Samoan, and Guamanian. These persons indicated their race in the "Other" category and later, through the editing process, were assigned to a specific group. For example, in 1970, Asian Indians were reclassified as "White," while Vietnamese, Guamanians, and Samoans were included in the "Other" category.

Another difference between 1990 and preceding censuses is the approach taken when persons of Spanish/Hispanic origin did not report in a specific race category but reported as "Other race" or "Other." These persons commonly provided a write-in entry such as Mexican, Venezuelan, or Latino. In the 1990 and 1980 censuses, these entries remained in the "Other race" or "Other" category, respectively. In the 1970 census, most of these persons were included in the "White" category.

REFERENCE WEEK

The data on labor force status and journey to work were related to the reference week; that is, the calendar week preceding the date on which the respondents completed their questionnaires or were interviewed by enumerators. This week is not the same for all respondents since the enumeration was not completed in one week. The occurrence of holidays during the enumeration period could affect the data on actual hours worked during the reference week, but probably had no effect on overall measurement of employment status (see the discussion below on "Comparability").

Comparability—The reference weeks for the 1990 and 1980 censuses differ in that Passover and Good Friday occurred in the first week of April 1980, but in the second week of April 1990. Many workers presumably took time off for those observances. The differing occurrence of

these holidays could affect the comparability of the 1990 and 1980 data on actual hours worked for some areas if the respective weeks were the reference weeks for a significant number of persons. The holidays probably did not affect the overall measurement of employment status since this information was based on work activity during the entire reference week.

RESIDENCE IN 1985

The data on residence in 1985 were derived from answers to questionnaire item 14b, which asked for the State (or foreign country), county, and place of residence on April 1, 1985, for those persons reporting in question 14a that on that date they lived in a different house than their current residence. Residence in 1985 is used in conjunction with location of current residence to determine the extent of residential mobility of the population and the resulting redistribution of the population across the various States, metropolitan areas, and regions of the country.

When no information on residence in 1985 was reported for a person, information for other family members, if available, was used to assign a location of residence in 1985. All cases of nonresponse or incomplete response that were not assigned a previous residence based on information from other family members were allocated the previous residence of another person with similar characteristics who provided complete information.

The tabulation category, "Same house," includes all persons 5 years old and over who did not move during the 5 years as well as those who had moved but by 1990 had returned to their 1985 residence. The category, "Different house in the United States," includes persons who lived in the United States in 1985 but in a different house or apartment from the one they occupied on April 1, 1990. These movers are then further subdivided according to the type of move.

In most tabulations, movers are divided into three groups according to their 1985 residence: "Different house, same county," "Different county, same State," and "Different State." The last group may be further subdivided into region of residence in 1985. The category, "Abroad," includes those persons who were residing in a foreign country, Puerto Rico, or an outlying area of the U.S. in 1985, including members of the Armed Forces and their dependents. Some tabulations show movers who were residing in Puerto Rico or an outlying area in 1985 separately from those residing in other countries.

In tabulations for metropolitan areas, movers are categorized according to the metropolitan status of their current and previous residences, resulting in such groups as movers within an MSA/PMSA, movers between MSA/PMSA's, movers from nonmetropolitan areas to MSA/PMSA, and movers from central cities to the remainder of an MSA/PMSA. In some tabulations, these categories are further subdivided by size of MSA/PMSA, region of current or previous residence, or movers within or between central cities and the remainder of the same or a different MSA/PMSA.

The size categories used in some tabulations for both 1985 and 1990 residence refer to the populations of the MSA/PMSA on April 1, 1990; that is, at the end of the migration interval.

Some tabulations present data on immigrants, outmigrants, and net migration. "Immigrants" are generally defined as those persons who entered a specified area by crossing its boundary from some point outside the area. In some tabulations, movers from abroad are included in the number of immigrants; in others, only movers within the United States are included.

"Outmigrants" are persons who depart from a specific area by crossing its boundary to a point outside it, but without leaving the United States. "Net migration" is calculated by subtracting the number of outmigrants from the number of immigrants and, depending upon the particular tabulation, may or may not include movers from abroad. The net migration for the area is net immigration if the result was positive and net outmigration if the result was negative. In the tabulations, net outmigration is indicated by a minus sign (-).

Immigrants and outmigrants for States include only those persons who did not live in the same State in 1985 and 1990; that is, they exclude persons who moved between counties within the same State. Thus, the sum of the immigrants to (or outmigrants from) all counties in any State is greater than the number of immigrants to (or outmigrants from) that State. However, in the case of net migration, the sum of the nets for all the counties within a State equal the net for the State. In the same fashion, the net migration for a division or region equals the sum of the nets for the States comprising that division or region, while the number of immigrants and outmigrants for that division or region is less than the sum of the immigrants or outmigrants for the individual States.

The number of persons who were living in a different house in 1985 is somewhat less than the total number of moves during the 5-year period. Some persons in the same house at the two dates had moved during the 5-year period but by the time of the census had returned to their 1985 residence. Other persons who were living in a different house had made one or more intermediate moves. For similar reasons, the number of persons living in a different county, MSA/PMSA, or State or moving between nonmetropolitan areas may be understated.

Comparability—Similar questions were asked on all previous censuses beginning in 1940, except the questions in 1950 referred to residence 1 year earlier rather than 5 years earlier. Although the questions in the 1940 census covered a 5-year period, comparability with that census was reduced somewhat because of different definitions and categories of tabulation. Comparability with the 1960 and 1970 census is also somewhat reduced because nonresponse was not allocated in those earlier censuses. For the 1980 census, nonresponse was allocated in a manner similar to the 1990 allocation scheme.

SCHOOL ENROLLMENT AND LABOR FORCE STATUS

Tabulation of data on enrollment, educational attainment, and labor force status for the population 16 to 19 years old allows for calculation of the proportion of the age group who are not enrolled in school and not high school graduates or "dropouts" and an unemployment rate for the "dropout" population. Definitions of the three topics and descriptions of the census items from which they were derived are presented in "Educational Attainment," "Employment Status," and "School Enrollment and Type of School." The published tabulations include both the civilian and Armed Forces populations, but labor force status is provided for the civilian population only. Therefore, the component labor force statuses may not add to the total lines *enrolled in school, high school graduate, and not high school graduate*. The difference is Armed Forces.

Comparability—The tabulation of school enrollment by labor force status is similar to that published in 1980 census reports. The 1980 census tabulation included a single data line for Armed Forces; however, enrollment, attainment, and labor force status data were shown for the civilian population only. In 1970, a tabulation was included for 16 to 21 year old males not attending school.

SCHOOL ENROLLMENT AND TYPE OF SCHOOL

Data on school enrollment were derived from answers to questionnaire item 11, which was asked of a sample of persons. Persons were classified as enrolled in school if they reported attending a "regular" public or private school or college at any time between February 1, 1990, and the time of enumeration. The question included instructions to "include only nursery school, kindergarten, elementary school, and schooling which would lead to a high school diploma or a college degree" as regular school. Instructions included in the 1990 respondent instruction guide, which was mailed with the census questionnaire, further specified that enrollment in a trade or business school, company training, or tutoring were not to be included unless the course would be accepted for credit at a regular elementary school, high school, or college. Persons who did not answer the enrollment question were assigned the enrollment status and type of school of a person with the same age, race or Hispanic origin, and, at older ages, sex, whose residence was in the same or a nearby area.

Public and Private School—Includes persons who attended school in the reference period and indicated they were enrolled by marking one of the questionnaire categories for either "public school, public college" or "private school, private college." The instruction guide defines a public school as "any school or college controlled and supported by a local, county, State, or Federal Government." Schools supported and controlled primarily by religious organizations or other private groups are defined as private. Persons who filled both the "public" and "private" circles are edited to the first entry, "public."

Level of School in Which Enrolled—Persons who were enrolled in school were classified as enrolled in "preprimary school," "elementary or high school," or "college" according to their response to question 12 (years of school completed or highest degree received). Persons who were enrolled and reported completing nursery school or less were classified as enrolled in "preprimary school," which includes kindergarten. Similarly, enrolled persons who had completed at least kindergarten, but not high school, were classified as enrolled in elementary or high school. Enrolled persons who reported completing high school or some college or having received a post-secondary degree were classified as enrolled in "college." Enrolled persons who reported completing the twelfth grade but receiving "NO DIPLOMA" were classified as enrolled in high school. (For more information on level of school, see the discussion under "Educational Attainment.")

Comparability—School enrollment questions have been included in the census since 1840; grade attended was first asked in 1940; type of school was first asked in 1960. Before 1940, the enrollment question in various censuses referred to attendance in the preceding six months or the preceding year. In 1940, the reference was to attendance in the month preceding the census, and in the 1950 and subsequent censuses, the question referred to attendance in the two months preceding the census date.

Until the 1910 census, there were no instructions limiting the kinds of schools in which enrollment was to be counted. Starting in 1910, the instructions indicated that attendance at "school, college, or any educational institution" was to be counted. In 1930 an instruction to include "night school" was added. In the 1940 instructions, night school, extension school, or vocational school were included only if the school was part of the regular school system. Correspondence school work of any kind was excluded. In the 1950 instructions, the term "regular school" was introduced, and it was defined as schooling which "advances a person towards an elementary or high school diploma or a college, university, or professional school degree." Vocational, trade, or business schools were excluded unless they were graded and considered part of a regular school system. On-the-job training was excluded, as was nursery school. Instruction by correspondence was excluded unless it was given by a regular school and counted towards promotion.

In 1960, the question used the term "regular school or college" and a similar, though expanded, definition of "regular" was included in the instructions, which continued to exclude nursery school. Because of the census' use of mailed questionnaires, the 1960 census was the first in which instructions were written for the respondent as well as enumerators. In the 1970 census, the questionnaire used the phrase "regular school or college" and included instructions to "count nursery school, kindergarten, and schooling which leads to an elementary school certificate, high school diploma, or college degree." Instructions in a separate document specified that to be counted as regular

school, nursery school must include instruction as an important and integral phase of its program, and continued the exclusion of vocational, trade, and business schools. The 1980 census question was very similar to the 1970 question, but the separate instruction booklet did not require that nursery school include substantial instructional content in order to be counted.

The age range for which enrollment data have been obtained and published has varied over the censuses. Information on enrollment was recorded for persons of all ages in the 1930 and 1940 and 1970 through 1990; for persons under age 30, in 1950; and for persons age 5 to 34, in 1960. Most of the published enrollment figures referred to persons age 5 to 20 in the 1930 census, 5 to 24 in 1940, 5 to 29 in 1950, 5 to 34 in 1960, 3 to 34 in 1970, and 3 years old and over in 1980. This growth in the age group whose enrollment was reported reflects increased interest in the number of children in preprimary schools and in the number of older persons attending colleges and universities.

In the 1950 and subsequent censuses, college students were enumerated where they lived while attending college, whereas in earlier censuses, they generally were enumerated at their parental homes. This change should not affect the comparability of national figures on college enrollment since 1940; however, it may affect the comparability over time of enrollment figures at sub-national levels.

Type of school was first introduced in the 1960 census, where a separate question asked the enrolled persons whether they were in a "public" or "private" school. Since the 1970 census, the type of school was incorporated into the response categories for the enrollment question and the terms were changed to "public," "parochial," and "other private." In the 1980 census, "private, church related" and "private, not church related" replaced "parochial" and "other private."

Grade of enrollment was first available in the 1940 census, where it was obtained from responses to the question on highest grade of school completed. Enumerators were instructed that "for a person still in school, the last grade completed will be the grade preceding the one in which he or she was now enrolled." From 1950 to 1980, grade of enrollment was obtained from the highest grade attended in the two-part question used to measure educational attainment. (For more information, see the discussion under "Educational Attainment.") The form of the question from which level of enrollment was derived in the 1990 census most closely corresponds to the question used in 1940. While data from prior censuses can be aggregated to provide levels of enrollment comparable to the 1990 census, 1990 data cannot be disaggregated to show single grade of enrollment as in previous censuses.

Data on school enrollment were also collected and published by other Federal, State, and local government agencies. Where these data were obtained from administrative records of school systems and institutions of higher learning, they were only roughly comparable with data from population censuses and household surveys because of

differences in definitions and concepts, subject matter covered, time references, and enumeration methods. At the local level, the difference between the location of the institution and the residence of the student may affect the comparability of census and administrative data. Differences between the boundaries of school districts and census geographic units also may affect these comparisons.

SELF-CARE LIMITATION STATUS

The data on self-care limitation status were derived from answers to questionnaire item 19b, which was asked of a sample of persons 15 years old and over. Persons were identified as having a self-care limitation if they had a health condition that had lasted for 6 or more months and which made it difficult to take care of their own personal needs, such as dressing, bathing, or getting around inside the home.

The term "health condition" referred to both physical and mental conditions. A temporary health problem, such as a broken bone that was expected to heal normally was not considered a health condition.

Comparability—This was the first time that a question on self-care limitation was included in the census.

SEX

The data on sex were derived from answers to questionnaire item 3, which was asked of all persons. For most cases in which sex was not reported, it was determined by the appropriate entry from the person's given name and household relationship. Otherwise, sex was imputed according to the relationship to the householder and the age and marital status of the person. For more information on imputation, see Appendix C, Accuracy of the Data.

Sex Ratio—A measure derived by dividing the total number of males by the total number of females and multiplying by 100.

Comparability—A question on the sex of individuals has been asked of the total population in every census.

VETERAN STATUS

Data on veteran status, period of military service, and years of military service were derived from answers to questionnaire item 17, which was asked of a sample of persons.

Veteran Status—The data on veteran status were derived from responses to question 17a. For census data products, a "civilian veteran" is a person 16 years old or over who had served (even for a short time) but is not now

serving on active duty in the U.S. Army, Navy, Air Force, Marine Corps, or the Coast Guard, or who served as a Merchant Marine seaman during World War II. Persons who served in the National Guard or military Reserves are classified as veterans only if they were ever called or ordered to active duty not counting the 4-6 months for initial training or yearly summer camps. All other civilians 16 years old and over are classified as nonveterans.

Period of Military Service—Persons who indicated in question 17a that they had served on active duty (civilian veterans) or were now on active duty were asked to indicate in question 17b the period or periods in which they served. Persons serving in at least one wartime period are classified in their most recent wartime period. For example, persons who served both during the Korean conflict and the post-Korean peacetime era between February 1955 and July 1964 are classified in one of the two "Korean conflict" categories. If the same person had also served during the Vietnam era, he or she would instead be included in the "Vietnam era and Korean conflict" category. The responses were edited to eliminate inconsistencies between reported period(s) of service and the age of the person and to cancel out reported combinations of periods containing unreasonable gaps (for example, a person could not serve during World War I and the Korean conflict without serving during World War II). Note that the period of service categories shown in this report are mutually exclusive.

Years of Military Service—Persons who indicated in question 17a that they had served on active duty (civilian veterans) or were now on active duty were asked to report the total number of years of active-duty service in question 17c. The data were edited for consistency with responses to question 17b (Period of Military Service) and with the age of the person.

Limitation of the Data—There may be a tendency for the following kinds of persons to report erroneously that they served on active duty in the Armed Forces: (a) persons who served in the National Guard or military Reserves but were never called to active duty; (b) civilian employees or volunteers for the USO, Red Cross, or the Department of Defense (or its predecessor Departments, War and Navy); and (c) employees of the Merchant Marine or Public Health Service. There may also be a tendency for persons to erroneously round up months to the nearest year in question 17c (for example, persons with 1 year 8 months of active duty military service may mistakenly report "2 years").

Comparability—Since census data on veterans were based on self-reported responses, they may differ from data from other sources such as administrative records of the Department of Defense. Census data may also differ from Veterans Administration data on the benefits-eligible population, since factors determining eligibility for veterans benefits differ from the rules for classifying veterans in the census.

The wording of the question on veteran status (17a) for 1990 was expanded from the veteran/not veteran question in 1980 to include questions on current active duty status and service in the military Reserves and the National Guard. The expansion was intended to clarify the appropriate response for persons in the Armed Forces and for persons who served in the National Guard or military Reserve units only. For the first time in a census, service during World War II as a Merchant Marine Seaman was considered active-duty military service and persons with such service were counted as veterans. An additional period of military service, "September 1980 or later" was added in 1990. As in 1970 and 1980, persons reporting more than one period of service are shown in the most recent wartime period of service category. Question 17c (Years of Military Service) was new for 1990.

WORK DISABILITY STATUS

The data on work disability were derived from answers to questionnaire item 18, which was asked of a sample of persons 15 years old and over. Persons were identified as having a work disability if they had a health condition that had lasted for 6 or more months and which limited the kind or amount of work they could do at a job or business. A person was limited in the kind of work he or she could do if the person had a health condition which restricted his or her choice of jobs. A person was limited in the amount of work if he or she was not able to work full-time. Persons with a work disability were further classified as "Prevented from working" or "Not prevented from working."

The term "health condition" referred to both physical and mental conditions. A temporary health problem, such as a broken bone that was expected to heal normally, was not considered a health condition.

Comparability—The wording of the question on work disability was the same in 1990 as in 1980. Information on work disability was first collected in 1970. In that census, the work disability question did not contain a clause restricting the definition of disability to limitations caused by a health condition that had lasted 6 or more months; however, it did contain a separate question about the duration of the disability.

WORK STATUS IN 1989

The data on work status in 1989 were derived from answers to questionnaire item 31, which was asked of a sample of persons. Persons 16 years old and over who worked 1 or more weeks according to the criteria described below are classified as "Worked in 1989." All other persons 16 years old and over are classified as "Did not work in 1989." Some tabulations showing work status in 1989 include 15 year olds; these persons, by definition, are classified as "Did not work in 1989."

Weeks Worked in 1989

The data on weeks worked in 1989 were derived from responses to questionnaire item 31b. Question 31b (Weeks Worked in 1989) was asked of persons 16 years old and over who indicated in question 31a that they worked in 1989.

The data pertain to the number of weeks during 1989 in which a person did any work for pay or profit (including paid vacation and paid sick leave) or worked without pay on a family farm or in a family business. Weeks of active service in the Armed Forces are also included.

Usual Hours Worked Per Week Worked in 1989

The data on usual hours worked per week worked in 1989 were derived from answers to questionnaire item 31c. This question was asked of persons 16 years old and over who indicated that they worked in 1989.

The data pertain to the number of hours a person usually worked during the weeks worked in 1989. The respondent was to report the number of hours worked per week in the majority of the weeks he or she worked in 1989. If the hours worked per week varied considerably during 1989, the respondent was to report an approximate average of the hours worked per week. The statistics on usual hours worked per week in 1989 are not necessarily related to the data on actual hours worked during the census reference week (question 21b).

Persons 16 years old and over who reported that they usually worked 35 or more hours each week during the weeks they worked are classified as "Usually worked full time;" persons who reported that they usually worked 1 to 34 hours are classified as "Usually worked part time."

Year-Round Full-Time Workers—All persons 16 years old and over who usually worked 35 hours or more per week for 50 to 52 weeks in 1989.

Number of Workers in Family in 1989—The term "worker" as used for these data is defined based on the criteria for Work Status in 1989.

Limitation of the Data—It is probable that the number of persons who worked in 1989 and the number of weeks worked are understated since there was some tendency for respondents to forget intermittent or short periods of employment or to exclude weeks worked without pay. There may also be a tendency for persons not to include weeks of paid vacation among their weeks worked; one result may be that the census figures may understate the number of persons who worked "50 to 52 weeks."

Comparability—The data on weeks worked collected in the 1990 census were comparable with data from the 1980, 1970, and 1960 censuses, but may not be entirely comparable with data from the 1940 and 1950 censuses. Since the 1960 census, two separate questions have been

used to obtain this information. The first identified persons with any work experience during the year and, thus, indicated those persons for whom the questions on number of weeks worked applied. In 1940 and 1950, however, the questionnaires contained only a single question on number of weeks worked.

In 1970, persons responded to the question on weeks worked by indicating one of six weeks-worked intervals. In 1980 and 1990, persons were asked to enter the specific number of weeks they worked.

YEAR OF ENTRY

The data on year of entry were derived from answers to questionnaire item 10, which was asked of a sample of persons. The question, "When did this person come to the United States to stay?" was asked of persons who indicated in the question on citizenship that they were not born in the United States. (For more information, see the discussion under "Citizenship.")

The 1990 census questions, tabulations, and census data products about citizenship and year of entry include no reference to immigration. All persons who were born and resided outside the United States before becoming residents of the United States have a date of entry. Some of these persons are U.S. citizens by birth (e.g., persons born in Puerto Rico or born abroad of American parents). To avoid any possible confusion concerning the date of entry of persons who are U.S. citizens by birth, the term, "year of entry" is used in this report instead of the term "year of immigration."

Limitation of the Data—The census questions on nativity, citizenship, and year of entry were not designed to measure the degree of permanence of residence in the United States. The phrase, "to stay" was used to obtain the year in which the person became a resident of the United States. Although the respondent was directed to indicate the year he or she entered the country "to stay," it was difficult to ensure that respondents interpreted the phrase correctly.

Comparability—A question on year of entry, (alternately called "year of immigration") was asked in each decennial census from 1890 to 1930, 1970, and 1980. In 1980, the question on year of entry included six arrival time intervals. The number of arrival intervals was expanded to ten in 1990. In 1980, the question on year of entry was asked only of the foreign-born population. In 1990, all persons who responded to the long-form questionnaire and were not born in the United States were to complete the question on year of entry.

HOUSING CHARACTERISTICS

LIVING QUARTERS

Living quarters are classified as either housing units or group quarters. (For more information, see the discussion of "Group Quarters" under Population Characteristics.)

Usually, living quarters are in structures intended for residential use (for example, a one-family home, apartment house, hotel or motel, boarding house, or mobile home). Living quarters also may be in structures intended for nonresidential use (for example, the rooms in a warehouse where a guard lives), as well as in places such as tents, vans, shelters for the homeless, dormitories, barracks, and old railroad cars.

Housing Units—A housing unit is a house, an apartment, a mobile home or trailer, a group of rooms or a single room occupied as separate living quarters or, if vacant, intended for occupancy as separate living quarters. Separate living quarters are those in which the occupants live and eat separately from any other persons in the building and which have direct access from outside the building or through a common hall.

The occupants may be a single family, one person living alone, two or more families living together, or any other group of related or unrelated persons who share living arrangements. For vacant units, the criteria of separateness and direct access are applied to the intended occupants whenever possible. If that information cannot be obtained, the criteria are applied to the previous occupants.

Both occupied and vacant housing units are included in the housing unit inventory, except that recreational vehicles, boats, vans, tents, railroad cars, and the like are included only if they are occupied as someone's usual place of residence. Vacant mobile homes are included provided they are intended for occupancy on the site where they stand. Vacant mobile homes on dealers' sales lots, at the factory, or in storage yards are excluded from the housing inventory.

If the living quarters contains nine or more persons unrelated to the householder or person in charge (a total of at least 10 unrelated persons), it is classified as group quarters. If the living quarters contains eight or fewer persons unrelated to the householder or person in charge, it is classified as a housing unit.

Occupied Housing Units—A housing unit is classified as occupied if it is the usual place of residence of the person or group of persons living in it at the time of enumeration, or if the occupants are only temporarily absent; that is, away on vacation or business. If all the persons staying in the unit at the time of the census have their usual place of residence elsewhere, the unit is classified as vacant. A household includes all the persons who occupy a housing unit as their usual place of residence. By definition, the count of occupied housing units for 100-percent tabulations is the same as the count of households or householders. In sample tabulations, the counts of household and occupied housing units may vary slightly because of different sample weighting methods.

Vacant Housing Units—A housing unit is vacant if no one is living in it at the time of enumeration, unless its occupants are only temporarily absent. Units temporarily occupied at the time of enumeration entirely by persons who have a usual residence elsewhere also are classified as vacant. (For more information, see discussion under "Usual Home Elsewhere.")

New units not yet occupied are classified as vacant housing units if construction has reached a point where all exterior windows and doors are installed and final usable floors are in place. Vacant units are excluded if they are open to the elements; that is, the roof, walls, windows, and/or doors no longer protect the interior from the elements, or if there is positive evidence (such as a sign on the house or in the block) that the unit is condemned or is to be demolished. Also excluded are quarters being used entirely for nonresidential purposes, such as a store or an office, or quarters used for the storage of business supplies or inventory, machinery, or agricultural products.

Hotels, Motels, Rooming Houses, Etc.—Occupied rooms or suites of rooms in hotels, motels, and similar places are classified as housing units only when occupied by permanent residents; that is, persons who consider the hotel as their usual place of residence or have no usual place of residence elsewhere. Vacant rooms or suites of rooms are classified as housing units only in those hotels, motels, and similar places in which 75 percent or more of the accommodations are occupied by permanent residents.

If any of the occupants in a rooming or boarding house live and eat separately from others in the building and have direct access, their quarters are classified as separate housing units.

Staff Living Quarters—The living quarters occupied by staff personnel within any group quarters are separate housing units if they satisfy the housing unit criteria of separateness and direct access; otherwise, they are considered group quarters.

Comparability—The first Census of Housing in 1940 established the "dwelling unit" concept. Although the term became "housing unit" and the definition has been modified slightly in succeeding censuses, the 1990 definition is essentially comparable to previous censuses. There was no change in the housing unit definition between 1980 and 1990.

ACREAGE

The data on acreage were obtained from questionnaire items H5a and H19a. Question H5a was asked at all occupied and vacant one-family houses and mobile homes. Question H19a was asked on a sample basis at occupied and vacant one-family houses and mobile homes.

Question H5a asks whether the house or mobile home is located on a place of 10 or more acres. The intent of this

item is to exclude owner-occupied and renter-occupied one-family houses on 10 or more acres from the specified owner- and renter-occupied universes for value and rent tabulations.

Question H19a provides data on whether the unit is located on less than 1 acre. The main purpose of this item, in conjunction with question H19b on agricultural sales, is to identify farm units. (For more information, see discussion under "Farm Residence.")

For both items, the land may consist of more than one tract or plot. These tracts or plots are usually adjoining; however, they may be separated by a road, creek, another piece of land, etc.

Comparability—Question H5a is similar to that asked in 1970 and 1980. This item was asked for the first time of mobile home occupants in 1990. Question H19a is an abbreviated form of a question asked on a sample basis in 1980. In previous censuses, information on city or suburban lot and number of acres was obtained also.

AGRICULTURAL SALES

Data on the sales of agricultural crops were obtained from questionnaire item H19b, which was asked on a sample basis at occupied one-family houses and mobile homes located on lots of 1 acre or more. Data for this item exclude units on lots of less than 1 acre, units located in structures containing 2 or more units, and all vacant units. This item refers to the total amount (before taxes and expenses) received in 1989 from the sale of crops, vegetables, fruits, nuts, livestock and livestock products, and nursery and forest products, produced on "this property." Respondents new to a unit were asked to estimate total agricultural sales in 1989 even if some portion of the sales had been made by other occupants of the unit.

This item is used mainly to classify housing units as farm or nonfarm residences, not to provide detailed information on the sale of agricultural products. Detailed information on the sale of agricultural products is provided by the Census Bureau's Census of Agriculture (*Factfinder for the Nation: Agricultural Statistics*, Bureau of the Census, 1989). (For more information, see the discussion under "Farm Residence.")

BEDROOMS

The data on bedrooms were obtained from questionnaire item H9, which was asked at both occupied and vacant housing units. This item was asked on a sample basis. The number of bedrooms is the count of rooms designed to be used as bedrooms; that is, the number of rooms that would be listed as bedrooms if the house or apartment were on the market for sale or for rent. Included are all rooms intended to be used as bedrooms even if

they currently are being used for some other purpose. A housing unit consisting of only one room, such as a one-room efficiency apartment, is classified, by definition, as having no bedroom.

Comparability—Data on bedrooms have been collected in every census since 1960. In 1970 and 1980, data for bedrooms were shown only for year-round units. In past censuses, a room was defined as a bedroom if it was used mainly for sleeping even if also used for other purposes. Rooms that were designed to be used as bedrooms but used mainly for other purposes were not considered to be bedrooms. A distribution of housing units by number of bedrooms calculated from data collected in a 1986 test showed virtually no differences in the two versions except in the two bedroom category, where the previous "use" definition showed a slightly lower proportion of units.

BOARDED-UP STATUS

Boarded-up status was obtained from questionnaire item C2 and was determined for all vacant units. Boarded-up units have windows and doors covered by wood, metal, or masonry to protect the interior and to prevent entry into the building. A single-unit structure, a unit in a multi-unit structure, or an entire multi-unit structure may be boarded-up in this way. For certain census data products, boarded-up units are shown only for units in the "Other vacant" category. A unit classified as "Usual home elsewhere" can never be boarded up. (For more information, see the discussion under "Usual Home Elsewhere.")

Comparability—This item was first asked in the 1980 census and was shown only for year-round vacant housing units. In 1990, data are shown for all vacant housing units.

BUSINESS ON PROPERTY

The data for business on property were obtained from questionnaire item H5b, which was asked at all occupied and vacant one-family houses and mobile homes. This question is used to exclude owner-occupied one-family houses with business or medical offices on the property from certain statistics on financial characteristics.

A business must be easily recognizable from the outside. It usually will have a separate outside entrance and have the appearance of a business, such as a grocery store, restaurant, or barber shop. It may be either attached to the house or mobile home or be located elsewhere on the property. Those housing units in which a room is used for business or professional purposes and have no recognizable alterations to the outside are *not* considered as having a business. Medical offices are considered businesses for tabulation purposes.

Comparability—Data on business on property have been collected since 1940.

CONDOMINIUM FEE

The data on condominium fee were obtained from questionnaire item H25, which was asked at owner-occupied condominiums. This item was asked on a sample basis. A condominium fee normally is charged monthly to the owners of the individual condominium units by the condominium owners association to cover operating, maintenance, administrative, and improvement costs of the common property (grounds, halls, lobby, parking areas, laundry rooms, swimming pool, etc.) The costs for utilities and/or fuels may be included in the condominium fee if the units do not have separate meters.

Data on condominium fees may include real estate tax and/or insurance payments for the common property, but do not include real estate taxes or fire, hazard, and flood insurance for the individual unit already reported in questions H21 and H22.

Amounts reported were the regular monthly payment, even if paid by someone outside the household or remain unpaid. Costs were estimated as closely as possible when exact costs were not known.

The data from this item were added to payments for mortgages (both first and junior mortgages and home equity loans); real estate taxes; fire, hazard, and flood insurance payments; and utilities and fuels to derive "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989" for condominium owners.

Comparability—This is a new item in 1990.

CONDOMINIUM STATUS

The data on condominium housing units were obtained from questionnaire item H18, which was asked on a sample basis at both occupied and vacant housing units. Condominium is a type of ownership that enables a person to own an apartment or house in a development of similarly owned units and to hold a common or joint ownership in some or all of the common areas and facilities such as land, roof, hallways, entrances, elevators, swimming pool, etc. Condominiums may be single-family houses as well as units in apartment buildings. A condominium unit need not be occupied by the owner to be counted as such. A unit classified as "mobile home or trailer" or "other" (see discussion under "Units in Structure") cannot be a condominium unit.

Limitation of the Data—Testing done prior to the 1980 and 1990 censuses indicated that the number of condominiums may be slightly overstated.

Comparability—In 1970, condominiums were grouped together with cooperative housing units, and the data were reported only for owner-occupied cooperatives and condominiums. Beginning in 1980, the census identified all

condominium units and the data were shown for renter-occupied and vacant year-round condominiums as well as owner occupied. In 1970 and 1980, the question on condominiums was asked on a 100-percent basis. In 1990, it was asked on a sample basis.

CONTRACT RENT

The data on contract rent (also referred to as "rent asked" for vacant units) were obtained from questionnaire item H7a, which was asked at all occupied housing units that were rented for cash rent and all vacant housing units that were for rent at the time of enumeration.

Housing units that are renter occupied without payment of cash rent are shown separately as "No cash rent" in census data products. The unit may be owned by friends or relatives who live elsewhere and who allow occupancy without charge. Rent-free houses or apartments may be provided to compensate caretakers, ministers, tenant farmers, sharecroppers, or others.

Contract rent is the monthly rent agreed to or contracted for, regardless of any furnishings, utilities, fees, meals, or services that may be included. For vacant units, it is the monthly rent asked for the rental unit at the time of enumeration.

If the contract rent includes rent for a business unit or for living quarters occupied by another household, the respondent was instructed to report that part of the rent estimated to be for his or her unit only. Respondents were asked to report rent only for the housing unit enumerated and to exclude any rent paid for additional units or for business premises.

If a renter pays rent to the owner of a condominium or cooperative, and the condominium fee or cooperative carrying charge is also paid by the renter to the owner, the respondent was instructed to include the fee or carrying charge.

If a renter receives payments from lodgers or roomers who are listed as members of the household, the respondent was instructed to report the rent without deduction for any payments received from the lodgers or roomers. The respondent was instructed to report the rent agreed to or contracted for even if paid by someone else such as friends or relatives living elsewhere, or a church or welfare agency.

In some tabulations, contract rent is presented for all renter-occupied housing units, as well as specified renter-occupied and vacant-for-rent units. Specified renter-occupied and specified vacant-for-rent units exclude one-family houses on 10 or more acres. (For more information on rent, see the discussion under "Gross Rent.")

Median and Quartile Contract Rent—The median divides the rent distribution into two equal parts. Quartiles divide the rent distribution into four equal parts. In computing median and quartile contract rent, units reported as "No

cash rent" are excluded. Median and quartile rent calculations are rounded to the nearest whole dollar. (For more information on medians and quartiles, see the discussion under "Derived Measures.")

Aggregate Contract Rent—To calculate aggregate contract rent, the amount assigned for the category "Less than \$80" is \$50. The amount assigned to the category "\$1,000 or more" is \$1,250. Mean contract rent is rounded to the nearest whole dollar. (For more information on aggregates and means, see the discussion under "Derived Measures.")

Limitation of the Data—In the 1970 and 1980 censuses, contract rent for vacant units had high allocation rates, about 35 percent.

Comparability—Data on this item have been collected since 1930. For 1990, quartiles were added because the range of rents and values in the United States has increased in recent years. Upper and lower quartiles can be used to note large rent and value differences among various geographic areas.

DURATION OF VACANCY

The data for duration of vacancy (also referred to as "months vacant") were obtained from questionnaire item D, which was completed by census enumerators. The statistics on duration of vacancy refer to the length of time (in months and years) between the date the last occupants moved from the unit and the time of enumeration. The data, therefore, do not provide a direct measure of the total length of time units remain vacant.

For newly constructed units which have never been occupied, the duration of vacancy is counted from the date construction was completed. For recently converted or merged units, the time is reported from the date conversion or merger was completed. Units occupied by an entire household with a usual home elsewhere are assigned to the "Less than 1 month" interval.

Comparability—Similar data have been collected since 1960. In 1970 and 1980, these data were shown only for year-round vacant housing units. In 1990, these data are shown for all vacant housing units.

FARM RESIDENCE

The data on farm residence were obtained from questionnaire items H19a and H19b. An occupied one-family house or mobile home is classified as a farm residence if: (1) the housing unit is located on a property of 1 acre or more, and (2) at least \$1,000 worth of agricultural products were sold from the property in 1989. Group quarters and housing units that are in multi-unit buildings or vacant are not included as farm residences.

A one-family unit occupied by a tenant household paying cash rent for land and buildings is enumerated as a farm residence only if sales of agricultural products from its yard (as opposed to the general property on which it is located) amounted to at least \$1,000 in 1989. A one-family unit occupied by a tenant household that does not pay cash rent is enumerated as a farm residence if the remainder of the farm (including its yard) qualifies as a farm.

Farm residence is provided as an independent data item only for housing units located in rural areas. It may be derived for housing units in urban areas from the data items on acreage and sales of agricultural products on the public-use microdata sample (PUMS) files. (For more information on PUMS, see Appendix F, Data Products and User Assistance.)

The farm population consists of persons in households living in farm residences. Some persons who are counted on a property classified as a farm (including in some cases farm workers) are excluded from the farm population. Such persons include those who reside in multi-unit buildings or group quarters.

Comparability—These are the same criteria that were used to define a farm residence in 1980. In 1960 and 1970, a farm was defined as a place of 10 or more acres with at least \$50 worth of agricultural sales or a place of less than 10 acres with at least \$250 worth of agricultural sales. Earlier censuses used other definitions. Note that the definition of a farm residence differs from the definition of a farm in the Census of Agriculture (*Factfinder for the Nation: Agricultural Statistics*, Bureau of the Census, 1989).

GROSS RENT

Gross rent is the contract rent plus the estimated average monthly cost of utilities (electricity, gas, and water) and fuels (oil, coal, kerosene, wood, etc.) if these are paid for by the renter (or paid for the renter by someone else). Gross rent is intended to eliminate differentials which result from varying practices with respect to the inclusion of utilities and fuels as part of the rental payment. The estimated costs of utilities and fuels are reported on a yearly basis but are converted to monthly figures for the tabulations. Renter units occupied without payment of cash rent are shown separately as "No cash rent" in the tabulations. Gross rent is calculated on a sample basis.

Comparability—Data on gross rent have been collected since 1940 for renter-occupied housing units. In 1980, costs for electricity and gas were collected as average monthly costs. In 1990, all utility and fuel costs were collected as yearly costs and divided by 12 to provide an average monthly cost.

GROSS RENT AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1989

Gross rent as a percentage of household income in 1989 is a computed ratio of monthly gross rent to monthly household income (total household income in 1989 divided by 12). The ratio was computed separately for each unit and was rounded to the nearest whole percentage. Units for which no cash rent is paid and units occupied by households that reported no income or a net loss in 1989 comprise the category "Not computed." This item is calculated on a sample basis.

HOUSE HEATING FUEL

The data on house heating fuel were obtained from questionnaire item H14, which was asked at occupied housing units. This item was asked on a sample basis. The data show the type of fuel used most to heat the house or apartment.

Utility Gas—Includes gas piped through underground pipes from a central system to serve the neighborhood.

Bottled, Tank, or LP Gas—Includes liquid propane gas stored in bottles or tanks which are refilled or exchanged when empty.

Fuel Oil, Kerosene, Etc.—Includes fuel oil, kerosene, gasoline, alcohol, and other combustible liquids.

Wood—Includes purchased wood, wood cut by household members on their property or elsewhere, driftwood, saw-mill or construction scraps, or the like.

Solar Energy—Includes heat provided by sunlight which is collected, stored, and actively distributed to most of the rooms.

Other Fuel—Includes all other fuels not specified elsewhere.

No Fuel Used—Includes units that do not use any fuel or that do not have heating equipment.

Comparability—Data on house heating fuel have been collected since 1940. The category, "Solar energy" is new for 1990.

INSURANCE FOR FIRE, HAZARD, AND FLOOD

The data on fire, hazard, and flood insurance were obtained from questionnaire item H22, which was asked at a sample of owner-occupied one-family houses, condominiums, and mobile homes. The statistics for this item refer to the annual premium for fire, hazard, and flood insurance on

the property (land and buildings); that is, policies that protect the property and its contents against loss due to damage by fire, lightning, winds, hail, flood, explosion, and so on.

Liability policies are included only if they are paid with the fire, hazard, and flood insurance premiums and the amounts for fire, hazard, and flood cannot be separated. Premiums are included even if paid by someone outside the household or remain unpaid. When premiums are paid on other than a yearly basis, the premiums are converted to a yearly basis.

The payment for fire, hazard, and flood insurance is added to payments for real estate taxes, utilities, fuels, and mortgages (both first and junior mortgages and home equity loans) to derive "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989."

A separate question (H23d) determines whether insurance premiums are included in the mortgage payment to the lender(s). This makes it possible to avoid counting these premiums twice in the computations.

Comparability—Data on payment for fire and hazard insurance were collected for the first time in 1980. Flood insurance was not specifically mentioned in the wording of the question in 1980. The question was asked only at owner-occupied one-family houses. Excluded were mobile homes, condominiums, houses with a business or medical office on the property, houses on 10 or more acres, and housing units in multi-unit buildings. In 1990, the question was asked of all one-family owner-occupied houses, including houses on 10 or more acres. It also was asked at mobile homes, condominiums, and one-family houses with a business or medical office on the property.

KITCHEN FACILITIES

Data on kitchen facilities were obtained from questionnaire item H11, which was asked at both occupied and vacant housing units. A unit has complete kitchen facilities when it has all of the following: (1) an installed sink with piped water, (2) a range, cook top and convection or microwave oven, or cookstove, and (3) a refrigerator. All kitchen facilities must be located in the structure. They need not be in the same room. Portable cooking equipment is not considered a range or cookstove. An ice box is not considered to be a refrigerator.

Comparability—Data on complete kitchen facilities were collected for the first time in 1970. Earlier censuses collected data on individual components, such as kitchen sink and type of refrigeration equipment. In 1970 and 1980, data for kitchen facilities were shown only for year-round units. In 1990, data are shown for all housing units.

MEALS INCLUDED IN RENT

The data on meals included in the rent were obtained from questionnaire item H7b, which was asked of all

occupied housing units that were rented for cash and all vacant housing units that were for rent at the time of enumeration.

The statistics on meals included in rent are presented for specified renter-occupied and specified vacant-for-rent units. Specified renter-occupied and specified vacant-for-rent units exclude one-family houses on 10 or more acres. (For more information, see the discussion under "Contract Rent.")

Comparability—This is a new item in 1990. It is intended to measure "congregate" housing, which generally is considered to be housing units where the rent includes meals and other services, such as transportation to shopping and recreation.

MOBILE HOME COSTS

The data on mobile home costs were obtained from questionnaire item H26, which was asked at owner-occupied mobile homes. This item was asked on a sample basis.

These data include the total yearly costs for personal property taxes, land or site rent, registration fees, and license fees on all owner-occupied mobile homes. The instructions are to not include real estate taxes already reported in question H21.

Costs are estimated as closely as possible when exact costs are not known. Amounts are the total for an entire 12-month billing period, even if they are paid by someone outside the household or remain unpaid.

The data from this item are added to payments for mortgages, real estate taxes, fire, hazard, and flood insurance payments, utilities, and fuels to derive selected monthly owner costs for mobile homes owners.

Comparability—This item is new for 1990.

MORTGAGE PAYMENT

The data on mortgage payment were obtained from questionnaire item H23b, which was asked at owner occupied one-family houses, condominiums, and mobile homes. This item was asked on a sample basis. Question H23b provides the regular monthly amount required to be paid the lender for the first mortgage (deed of trust, contract to purchase, or similar debt) on the property. Amounts are included even if the payments are delinquent or paid by someone else. The amounts reported are included in the computation of "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989" for units with a mortgage.

The amounts reported include everything paid to the lender including principal and interest payments, real estate taxes, fire, hazard, and flood insurance payments, and mortgage insurance premiums. Separate questions determine whether real estate taxes and fire, hazard, and flood

insurance payments are included in the mortgage payment to the lender. This makes it possible to avoid counting these components twice in the computation of "Selected Monthly Owner Costs."

Comparability—Information on mortgage payment was collected for the first time in 1980. It was collected only at owner-occupied one-family houses. Excluded were mobile homes, condominiums, houses with a business or medical office on the property, one-family houses on 10 or more acres, and housing units in multi-unit buildings. In 1990, the questions on monthly mortgage payments were asked of all owner-occupied one-family houses, including one-family houses on 10 or more acres. They were also asked at mobile homes, condominiums, and one-family houses with a business or medical office.

The 1980 census obtained total regular monthly mortgage payments, including payments on second or junior mortgages, from a single question. Two questions were used in 1990; one for regular monthly payments on first mortgages, and one for regular monthly payments on second or junior mortgages or home equity loans. (For more information, see the discussion under "Second or Junior Mortgage Payment.")

MORTGAGE STATUS

The data on mortgage status were obtained from questionnaire items H23a and H24a, which were asked at owner-occupied one-family houses, condominiums, and mobile homes. "Mortgage" refers to all forms of debt where the property is pledged as security for repayment of the debt. It includes such debt instruments as deeds of trust, trust deeds, contracts to purchase, land contracts, junior mortgages and home equity loans.

A mortgage is considered a first mortgage if it has prior claim over any other mortgage or if it is the only mortgage on the property. All other mortgages, (second, third, etc.) are considered junior mortgages. A home equity loan is generally a junior mortgage. If no first mortgage is reported, but a junior mortgage or home equity loan is reported, then the loan is considered a first mortgage.

In most census data products, the tabulations for "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989" usually are shown separately for units "with a mortgage" and for units "not mortgaged." The category "not mortgaged" is comprised of housing units owned free and clear of debt.

Comparability—A question on mortgage status was included in the 1940 and 1950 censuses, but not in the 1960 and 1970 censuses. The item was reinstated in 1980 along with a separate question dealing with the existence of second or junior mortgages. In 1980, the mortgage status questions were asked at owner-occupied one-family houses on less than 10 acres. Excluded were mobile homes,

condominiums, houses with a business or medical office, houses on 10 or more acres, and housing units in multi-unit buildings. In 1990, the questions were asked of all one-family owner-occupied housing units, including houses on 10 or more acres. They were also asked at mobile homes, condominiums, and houses with a business or medical office.

PERSONS IN UNIT

This item is based on the 100-percent count of persons in occupied housing units. All persons occupying the housing unit are counted, including the householder, occupants related to the householder, and lodgers, roomers, boarders, and so forth.

The data on "persons in unit" show the number of housing units occupied by the specified number of persons. The phrase "persons in unit" is used for housing tabulations, "persons in households" for population items. Figures for "persons in unit" match those for "persons in household" for 100-percent data products. In sample products, they may differ because of the weighting process.

Median Persons in Unit—In computing median persons in unit, a whole number is used as the midpoint of an interval; thus, a unit with 4 persons is treated as an interval ranging from 3.5 to 4.5 persons. Median persons is rounded to the nearest hundredth. (For more information on medians, see the discussion under "Derived Measures.")

Persons in Occupied Housing Units—This is the total population minus those persons living in group quarters. "Persons per occupied housing unit" is computed by dividing the population living in housing units by the number of occupied housing units.

PERSONS PER ROOM

"Persons per room" is obtained by dividing the number of persons in each occupied housing unit by the number of rooms in the unit. Persons per room is rounded to the nearest hundredth. The figures shown refer, therefore, to the number of occupied housing units having the specified ratio of persons per room.

Mean Persons Per Room—This is computed by dividing persons in housing units by the aggregate number of rooms. This is intended to provide a measure of utilization. A higher mean may indicate a greater degree of utilization or crowding; a low mean may indicate under-utilization. (For more information on means, see the discussion under "Derived Measures.")

PLUMBING FACILITIES

The data on plumbing facilities were obtained from questionnaire item H10, which was asked at both occupied and vacant housing units. This item was asked on a

sample basis. Complete plumbing facilities include hot and cold piped water, a flush toilet, and a bathtub or shower. All three facilities must be located inside the house, apartment, or mobile home, but not necessarily in the same room. Housing units are classified as lacking complete plumbing facilities when any of the three facilities are not present.

Comparability—The 1990 data on complete plumbing facilities are not strictly comparable with the 1980 data. In 1980, complete plumbing facilities were defined as hot and cold piped water, a bathtub or shower, and a flush toilet in the housing unit for the exclusive use of the residents of that unit. In 1990, the Census Bureau dropped the requirement of exclusive use from the definition of complete plumbing facilities. Of the 2.3 million year-round housing units classified in 1980 as lacking complete plumbing for exclusive use, approximately 25 percent of these units had complete plumbing but the facilities were also used by members of another household. From 1940 to 1970, separate and more detailed questions were asked on piped water, bathing, and toilet facilities. In 1970 and 1980, the data on plumbing facilities were shown only for year-round units.

POVERTY STATUS OF HOUSEHOLDS IN 1989

The data on poverty status of households were derived from answers to the income questions. The income items were asked on a sample basis. Households are classified below the poverty level when the total 1989 income of the family or of the nonfamily householder is below the appropriate poverty threshold. The income of persons living in the household who are unrelated to the householder is not considered when determining the poverty status of a household, nor does their presence affect the household size in determining the appropriate poverty threshold. The poverty thresholds vary depending upon three criteria: size of family, number of children, and age of the family householder or unrelated individual for one and two-persons households. (For more information, see the discussion of "Poverty Status in 1989" and "Income in 1989" under Population Characteristics.)

REAL ESTATE TAXES

The data on real estate taxes were obtained from questionnaire item H21, which was asked at owner-occupied one-family houses, condominiums, and mobile homes. The statistics from this question refer to the total amount of all real estate taxes on the entire property (land and buildings) payable in 1989 to all taxing jurisdictions, including special assessments, school taxes, county taxes, and so forth.

Real estate taxes include State, local, and all other real estate taxes even if delinquent, unpaid, or paid by someone who is not a member of the household. However, taxes due from prior years are not included. If taxes are paid on other than a yearly basis, the payments are converted to a yearly basis.

The payment for real estate taxes is added to payments for fire, hazard, and flood insurance; utilities and fuels; and mortgages (both first and junior mortgages and home equity loans) to derive "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989." A separate question (H23c) determines whether real estate taxes are included in the mortgage payment to the lender(s). This makes it possible to avoid counting taxes twice in the computations.

Comparability—Data for real estate taxes were collected for the first time in 1980. The question was asked only at owner-occupied one-family houses. Excluded were mobile homes or trailers, condominiums, houses with a business or medical office on the property, houses on 10 or more acres, and housing units in multi-unit buildings. In 1990, the question was asked of all one-family owner-occupied houses, including houses on 10 or more acres. It also was asked at mobile homes, condominiums, and one-family houses with a business or medical office on the property.

ROOMS

The data on rooms were obtained from questionnaire item H3, which was asked at both occupied and vacant housing units. The statistics on rooms are in terms of the number of housing units with a specified number of rooms. The intent of this question is to count the number of whole rooms used for living purposes.

For each unit, rooms include living rooms, dining rooms, kitchens, bedrooms, finished recreation rooms, enclosed porches suitable for year-round use, and lodger's rooms. Excluded are strip or pullman kitchens, bathrooms, open porches, balconies, halls or foyers, half-rooms, utility rooms, unfinished attics or basements, or other unfinished space used for storage. A partially divided room is a separate room only if there is a partition from floor to ceiling, but not if the partition consists solely of shelves or cabinets.

Median Rooms—This measure divides the room distribution into two equal parts, one-half of the cases falling below the median number of rooms and one-half above the median. In computing median rooms, the whole number is used as the midpoint of the interval; thus, the category "3 rooms" is treated as an interval ranging from 2.5 to 3.5 rooms. Median rooms is rounded to the nearest tenth. (For more information on medians, see the discussion under "Derived Measures.")

Aggregate Rooms—To calculate aggregate rooms, an arbitrary value of "10" is assigned to rooms for units falling within the terminal category, "9 or more." (For more information on aggregates and means, see the discussion under "Derived Measures.")

Comparability—Data on rooms have been collected since 1940. In 1970 and 1980, these data were shown only for year-round housing units. In 1990, these data are shown for all housing units.

SECOND OR JUNIOR MORTGAGE PAYMENT

The data on second or junior mortgage payments were obtained from questionnaire items H24a and H24b, which were asked at owner-occupied one-family houses, condominiums, and mobile homes. Question H24a asks whether a second or junior mortgage or a home equity loan exists on the property. Question H24b provides the regular monthly amount required to be paid to the lender on all second or junior mortgages and home equity loans. Amounts are included even if the payments are delinquent or paid by someone else. The amounts reported are included in the computation of "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989" for units with a mortgage.

All mortgages other than first mortgages are classified as "junior" mortgages. A second mortgage is a junior mortgage that gives the lender a claim against the property that is second to the claim of the holder of the first mortgage. Any other junior mortgage(s) would be subordinate to the second mortgage. A home equity loan is a line of credit available to the borrower that is secured by real estate. It may be placed on a property that already has a first or second mortgage, or it may be placed on a property that is owned free and clear.

If the respondents answered that no first mortgage existed, but a second mortgage did (as in the above case with a home equity loan), a computer edit assigned the unit a first mortgage and made the first mortgage monthly payment the amount reported in the second mortgage. The second mortgage data were then made "No" in question H24a and blank in question H24b.

Comparability—The 1980 census obtained total regular monthly mortgage payments, including payments on second or junior mortgages, from one single question. Two questions were used in 1990: one for regular monthly payments on first mortgages, and one for regular monthly payments on second or junior mortgages and home equity loans.

SELECTED MONTHLY OWNER COSTS

The data on selected monthly owner costs were obtained from questionnaire items H20 through H26 for a sample of owner-occupied one-family houses, condominiums, and mobile homes. Selected monthly owner costs is the sum of payments for mortgages, deeds of trust, contracts to purchase, or similar debts on the property (including payments for the first mortgage, second or junior mortgages, and home equity loans); real estate taxes; fire, hazard, and flood insurance on the property; utilities (electricity, gas, and water); and fuels (oil, coal, kerosene, wood, etc.). It also includes, where appropriate, the monthly condominium fee for condominiums and mobile home costs (personal property taxes, site rent, registration fees, and license fees) for mobile homes.

In certain tabulations, selected monthly owner costs are presented separately for specified owner-occupied housing units (owner-occupied one-family houses on fewer than 10 acres without a business or medical office on the property), owner-occupied condominiums, and owner-occupied mobile homes. Data usually are shown separately for units "with a mortgage" and for units "not mortgaged."

Median Selected Monthly Owner Costs—This measure is rounded to the nearest whole dollar.

Comparability—The components of selected monthly owner costs were collected for the first time in 1980. The 1990 tabulations of selected monthly owner costs for specified owner-occupied housing units are virtually identical to 1980, the primary difference was the amounts of the first and second mortgages were collected in separate questions in 1990, while the amounts were collected in a single question in 1980. The component parts of the item were tabulated for mobile homes and condominiums for the first time in 1990.

In 1980, costs for electricity and gas were collected as average monthly costs. In 1990, all utility and fuel costs were collected as yearly costs and divided by 12 to provide an average monthly cost.

SELECTED MONTHLY OWNER COSTS AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1989

The information on selected monthly owner costs as a percentage of household income in 1989 is the computed ratio of selected monthly owner costs to monthly household income in 1989. The ratio was computed separately for each unit and rounded to the nearest whole percentage. The data are tabulated separately for specified owner-occupied units, condominiums, and mobile homes.

Separate distributions are often shown for units "with a mortgage" and for units "not mortgaged." Units occupied by households reporting no income or a net loss in 1989 are included in the "not computed" category. (For more information, see the discussion under "Selected Monthly Owner Costs.")

Comparability—The components of selected monthly owner costs were collected for the first time in 1980. The tabulations of "Selected Monthly Owner Costs as a Percentage of Household Income in 1989" for specified owner-occupied housing units are comparable to 1980.

SEWAGE DISPOSAL

The data on sewage disposal were obtained from questionnaire item H16, which was asked at both occupied and vacant housing units. This item was asked on a sample basis. Housing units are either connected to a public sewer, to a septic tank or cesspool, or they dispose

of sewage by other means. A public sewer may be operated by a government body or by a private organization. A housing unit is considered to be connected to a septic tank or cesspool when the unit is provided with an underground pit or tank for sewage disposal. The category, "Other means" includes housing units which dispose of sewage in some other way.

Comparability—Data on sewage disposal have been collected since 1940. In 1970 and 1980, data were shown only for year-round housing units. In 1990, data are shown for all housing units.

SOURCE OF WATER

The data on source of water were obtained from questionnaire item H15, which was asked at both occupied and vacant housing units. Housing units may receive their water supply from a number of sources. A common source supplying water to five or more units is classified as a "Public system or private company." The water may be supplied by a city, county, water district, water company, etc., or it may be obtained from a well which supplies water to five or more housing units. If the water is supplied from a well serving four or fewer housing units, the units are classified as having water supplied by either an "Individual drilled well" or an "Individual dug well." Drilled wells or small diameter wells are usually less than 1-1/2 feet in diameter. Dug wells are usually larger than 1-1/2 feet wide and generally hand dug. The category, "Some other source" includes water obtained from springs, creeks, rivers, lakes, cisterns, etc.

Comparability—Data on source of water have been collected since 1940. In 1970 and 1980, data were shown only for year-round housing units. In 1990, data are shown for all housing units.

TELEPHONE IN HOUSING UNIT

The data on telephones were obtained from questionnaire item H12, which was asked at occupied housing units. This item was asked on a sample basis. A telephone must be inside the house or apartment for the unit to be classified as having a telephone. Units where the respondent uses a telephone located inside the building but not in the respondent's living quarters are classified as having no telephone.

Comparability—Data on telephones in 1980 are comparable to 1990. The 1960 and 1970 censuses collected data on telephone availability. A unit was classified as having a telephone available if there was a telephone number on which occupants of the unit could be reached. The telephone could have been in another unit, in a common hall, or outside the building.

TENURE

The data for tenure were obtained from questionnaire item H4, which was asked at all occupied housing units. All occupied housing units are classified as either owner occupied or renter occupied.

Owner Occupied—A housing unit is owner occupied if the owner or co-owner lives in the unit even if it is mortgaged or not fully paid for. The owner or co-owner must live in the unit and usually is the person listed in column 1 of the questionnaire. The unit is "Owned by you or someone in this household with a mortgage or loan" if it is being purchased with a mortgage or some other debt arrangement such as a deed of trust, trust deed, contract to purchase, land contract, or purchase agreement. The unit is also considered owned with a mortgage if it is built on leased land and there is a mortgage on the unit.

A housing unit is "Owned by you or someone in this household free and clear (without a mortgage)" if there is no mortgage or other similar debt on the house, apartment, or mobile home including units built on leased land if the unit is owned outright without a mortgage. Although owner-occupied units are divided between mortgaged and owned free and clear on the questionnaire, census data products containing 100-percent data show only total owner-occupied counts. More extensive mortgage information was collected on the long-form questionnaire and are shown in census products containing sample data. (For more information, see the discussion under "Mortgage Status.")

Renter Occupied—All occupied housing units which are not owner occupied, whether they are rented for cash rent or occupied without payment of cash rent, are classified as renter occupied. "No cash rent" units are separately identified in the rent tabulations. Such units are generally provided free by friends or relatives or in exchange for services such as resident manager, caretaker, minister, or tenant farmer. Housing units on military bases also are classified in the "No cash rent" category. "Rented for cash rent" includes units in continuing care, sometimes called life care arrangements. These arrangements usually involve a contract between one or more individuals and a health services provider guaranteeing the individual shelter, usually a house or apartment, and services, such as meals or transportation to shopping or recreation.

Comparability—Data on tenure have been collected since 1890. In 1970, the question on tenure also included a category for condominium and cooperative ownership. In 1980, condominium units and cooperatives were dropped from the tenure item, and since 1980, only condominium units are identified in a separate question.

For 1990, the response categories were expanded to allow the respondent to report whether the unit was owned with a mortgage or free and clear (without a mortgage). The distinction between units owned with a mortgage and units owned free and clear was added in 1990 to improve

the count of owner-occupied units. Research after the 1980 census indicated some respondents did not consider their units owned if they had a mortgage.

UNITS IN STRUCTURE

The data on units in structure (also referred to as "type of structure") were obtained from questionnaire item H2, which was asked at all housing units. A structure is a separate building that either has open spaces on all sides or is separated from other structures by dividing walls that extend from ground to roof. In determining the number of units in a structure, all housing units, both occupied and vacant, are counted. Stores and office space are excluded.

The statistics are presented for the number of housing units in structures of specified type and size, not for the number of residential buildings.

1-Unit, Detached—This is a 1-unit structure detached from any other house; that is, with open space on all four sides. Such structures are considered detached even if they have an adjoining shed or garage. A one-family house that contains a business is considered detached as long as the building has open space on all four sides. Mobile homes or trailers to which one or more permanent rooms have been added or built also are included.

1-Unit, Attached—This is a 1-unit structure that has one or more walls extending from ground to roof separating it from adjoining structures. In row houses (sometimes called townhouses), double houses, or houses attached to non-residential structures, each house is a separate, attached structure if the dividing or common wall goes from ground to roof.

2 or More Units—These are units in structures containing 2 or more housing units, further categorized as units in structures with 2, 3 or 4, 5 to 9, 10 to 19, 20 to 49, and 50 or more units.

Mobile Home or Trailer—Both occupied and vacant mobile homes to which no permanent rooms have been added are counted in this category. Mobile homes or trailers used only for business purposes or for extra sleeping space and mobile homes or trailers for sale on a dealer's lot, at the factory, or in storage are not counted in the housing inventory.

Other—This category is for any living quarters occupied as a housing unit that does not fit the previous categories. Examples that fit this category are houseboats, railroad cars, campers, and vans.

Comparability—Data on units in structure have been collected since 1940 and on mobile homes and trailers since 1950. In 1970 and 1980, these data were shown only for year-round housing units. In 1990, these data are

shown for all housing units. In 1980, the data were collected on a sample basis. The category, "Boat, tent, van, etc." was replaced in 1990 by the category "Other." In some areas, the proportion of units classified as "Other" is far larger than the number of units that were classified as "Boat, tent, van, etc." in 1980.

USUAL HOME ELSEWHERE

The data for usual home elsewhere are obtained from questionnaire item B, which was completed by census employees. A housing unit temporarily occupied at the time of enumeration entirely by persons with a usual residence elsewhere is classified as vacant. The occupants are classified as having a "Usual home elsewhere" and are counted at the address of their usual place of residence. Typical examples are people in a vacation home, persons renting living quarters temporarily for work, and migrant workers.

Limitation of the Data—Evidence from previous censuses suggests that in some areas enumerators marked units as "vacant—usual home elsewhere" when they should have marked "vacant—regular."

Comparability—Data for usual home elsewhere was tabulated for the first time in 1980.

UTILITIES

The data on utility costs were obtained from questionnaire items H20a through H20d, which were asked of occupied housing units. These items were asked on a sample basis.

Questions H20a through H20d asked for the yearly cost of utilities (electricity, gas, water) and other fuels (oil, coal, wood, kerosene, etc.). For the tabulations, these yearly amounts are divided by 12 to derive the average monthly cost and are then included in the computation of "Gross Rent," "Gross Rent as a Percentage of Household Income in 1989," "Selected Monthly Owner Costs," and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989."

Costs are recorded if paid by or billed to occupants, a welfare agency, relatives, or friends. Costs that are paid by landlords, included in the rent payment, or included in condominium or cooperative fees are excluded.

Limitation of the Data—Research has shown that respondents tended to overstate their expenses for electricity and gas when compared to utility company records. There is some evidence that this overstatement is reduced when yearly costs are asked rather than monthly costs. Caution should be exercised in using these data for direct analysis because costs are not reported for certain kinds of units

such as renter-occupied units with all utilities included in the rent and owner-occupied condominium units with utilities included in the condominium fee.

Comparability—The data on utility costs have been collected since 1980 for owner-occupied housing units, and since 1940 for renter-occupied housing units. In 1980, costs for electricity and gas were collected as average monthly costs. In 1990, all utility and fuel costs were collected as yearly costs and divided by 12 to provide an average monthly cost.

VACANCY STATUS

The data on vacancy status were obtained from questionnaire item C1, which was completed by census enumerators. Vacancy status and other characteristics of vacant units were determined by enumerators obtaining information from landlords, owners, neighbors, rental agents, and others. Vacant units are subdivided according to their housing market classification as follows:

For Rent—These are vacant units offered "for rent," and vacant units offered either "for rent" or "for sale."

For Sale Only—These are vacant units being offered "for sale only," including units in cooperatives and condominium projects if the individual units are offered "for sale only."

Rented or Sold, Not Occupied—If any money rent has been paid or agreed upon but the new renter has not moved in as of the date of enumeration, or if the unit has recently been sold but the new owner has not yet moved in, the vacant unit is classified as "rented or sold, not occupied."

For Seasonal, Recreational, or Occasional Use—These are vacant units used or intended for use only in certain seasons or for weekend or other occasional use throughout the year.

Seasonal units include those used for summer or winter sports or recreation, such as beach cottages and hunting cabins. Seasonal units also may include quarters for such workers as herders and loggers. Interval ownership units, sometimes called shared-ownership or time-sharing condominiums, also are included here.

For Migrant Workers—These include vacant units intended for occupancy by migratory workers employed in farm work during the crop season. (Work in a cannery, a freezer plant, or a food-processing plant is not farm work.)

Other Vacant—If a vacant unit does not fall into any of the classifications specified above, it is classified as "other vacant." For example, this category includes units held for occupancy by a caretaker or janitor, and units held for personal reasons of the owner.

Homeowner Vacancy Rate—This is the percentage relationship between the number of vacant units for sale and the total homeowner inventory. It is computed by dividing the number of vacant units for sale only by the sum of the owner-occupied units and the number of vacant units that are for sale only.

Rental Vacancy Rate—This is the percentage relationship of the number of vacant units for rent to the total rental inventory. It is computed by dividing the number of vacant units for rent by the sum of the renter-occupied units and the number of vacant units for rent.

Comparability—Data on vacancy status have been collected since 1940. For 1990, the category, "seasonal/recreational/occasional use" combined vacant units classified in 1980 as "seasonal or migratory" and "held for occasional use." Also, in 1970 and 1980, housing characteristics generally were presented only for year-round units. In 1990, housing characteristics are shown for all housing units.

VALUE

The data on value (also referred to as "price asked" for vacant units) were obtained from questionnaire item H6, which was asked at housing units that were owned, being bought, or vacant for sale at the time of enumeration. Value is the respondent's estimate of how much the property (house and lot, mobile home and lot, or condominium unit) would sell for if it were for sale. If the house or mobile home was owned or being bought, but the land on which it sits was not, the respondent was asked to estimate the combined value of the house or mobile home and the land. For vacant units, value was the price asked for the property.

Value was tabulated separately for all owner-occupied and vacant-for-sale housing units, owner-occupied and vacant-for-sale mobile homes or trailers, and specified owner-occupied and specified vacant-for-sale housing units. Specified owner-occupied and specified vacant-for-sale housing units include only one-family houses on fewer than 10 acres without a business or medical office on the property. The data for "specified units" exclude mobile homes, houses with a business or medical office, houses on 10 or more acres, and housing units in multi-unit buildings.

Median and Quartile Value—The median divides the value distribution into two equal parts. Quartiles divide the value distribution into four equal parts. These measures are rounded to the nearest hundred dollars. (For more information on medians and quartiles, see the discussion under "Derived Measures.")

Aggregate Value—To calculate aggregate value, the amount assigned for the category "Less than \$10,000" is \$9,000. The amount assigned to the category "\$500,000 or more"

is \$600,000. Mean value is rounded to the nearest hundred dollars. (For more information on aggregates and means, see the discussion under "Derived Measures.")

Comparability—In 1980, value was asked only at owner-occupied or vacant-for-sale one-family houses on fewer than 10 acres with no business or medical office on the property and at all owner-occupied or vacant-for-sale condominium housing units. Mobile homes were excluded. Value data were presented for specified owner-occupied housing units, specified vacant-for-sale-only housing units, and owner-occupied condominium housing units.

In 1990, the question was asked at all owner-occupied or vacant-for-sale-only housing units with no exclusions. Data presented for specified owner-occupied and specified vacant-for-sale-only housing units will include one-family condominium houses but not condominiums in multi-unit structures since condominium units are now identified only in long-form questionnaires.

For 1990, quartiles have been added because the range of values and rents in the United States has increased in recent years. Upper and lower quartiles can be used to note large value and rent differences among various geographic areas.

VEHICLES AVAILABLE

The data on vehicles available were obtained from questionnaire item H13, which was asked at occupied housing units. This item was asked on a sample basis. These data show the number of households with a specified number of passenger cars, vans, and pickup or panel trucks of one-ton capacity or less kept at home and available for the use of household members. Vehicles rented or leased for one month or more, company vehicles, and police and government vehicles are included if kept at home and used for nonbusiness purposes. Dismantled or immobile vehicles are excluded. Vehicles kept at home but used only for business purposes also are excluded.

Vehicles Per Household—This is computed by dividing aggregate vehicles available by the number of occupied housing units.

Limitation of the Data—The 1980 census evaluations showed that the number of automobiles was slightly overreported; the number of vans and trucks slightly underreported. The statistics do not measure the number of vehicles privately owned or the number of households owning vehicles.

Comparability—Data on automobiles available were collected from 1960 to 1980. In 1980, a separate question also was asked on the number of trucks and vans. The data on automobiles and trucks and vans were presented

separately and also as a combined vehicles available tabulation. The 1990 data are comparable to the 1980 vehicles available tabulations.

YEAR HOUSEHOLDER MOVED INTO UNIT

The data on year householder moved into unit were obtained from questionnaire item H8, which was asked at occupied housing units. This item was asked on a sample basis. These data refer to the year of the latest move by the householder. If a householder moved back into a housing unit he or she previously occupied, the year of the latest move was reported. If the householder moved from one apartment to another within the same building, the year the householder moved into the present apartment was reported. The intent is to establish the year the present occupancy by the householder began. The year that the householder moved in is not necessarily the same year other members of the household moved, although in the great majority of cases an entire household moves at the same time.

Comparability—In 1960 and 1970, this question was asked of every person and included in population reports. This item in housing tabulations refers to the year the householder moved in. In 1980 and 1990, the question was asked only of the householder.

YEAR STRUCTURE BUILT

The data on year structure built were obtained from questionnaire item H17, which was asked at both occupied and vacant housing units. This item was asked on a sample basis. Data on year structure built refer to when the building was first constructed, not when it was remodeled, added to, or converted. For housing units under construction that met the housing unit definition—that is, all exterior windows, doors, and final usable floors were in place—the category “1989 or March 1990” was used. For a houseboat or a mobile home or trailer, the manufacturer’s model year was assumed to be the year built. The figures shown in census data products relate to the number of units built during the specified periods that were still in existence at the time of enumeration.

Median Year Structure Built—The median divides the distribution into two equal parts. The median is rounded to the nearest calendar year. Median age of housing can be obtained by subtracting median year structure built from 1990. For example, if the median year structure built is 1957, the median age of housing in that area is 33 years (1990 minus 1957).

Limitation of the Data—Data on year structure built are more susceptible to errors of response and nonreporting than data on many other items because respondents must rely on their memory or on estimates by persons who have

lived in the neighborhood a long time. Available evidence indicates there is underreporting in the older-year-structure-built categories, especially “Built in 1939 or earlier.” The introduction of the “Don’t know” category (see the discussion on “Comparability”) may have resulted in relatively higher allocation rates. Data users should refer to the discussion in Appendix C, Accuracy of the Data, and to the allocation tables.

Comparability—Data on year structure built were collected for the first time in the 1940 census. Since then, the response categories have been modified to accommodate the 10-year period between each census. In 1990, the category, “Don’t Know,” was added in an effort to minimize the response error mentioned in the paragraph above on limitation of the data.

DERIVED MEASURES

Census data products include various derived measures, such as medians, means, and percentages, as well as certain rates and ratios. Derived measures that round to less than 0.1 are not shown but indicated as zero. In printed reports, zero is indicated by a dash (–).

Interpolation

Interpolation frequently is used in calculating medians or quartiles based on interval data and in approximating standard errors from tables. Linear interpolation is used to estimate values of a function between two known values. “Pareto interpolation” is an alternative to linear interpolation. It is used by the Census Bureau in calculating median income within intervals wider than \$2,500. In Pareto interpolation, the median is derived by interpolating between the logarithms of the upper and lower income limits of the median category.

Mean

This measure represents an arithmetic average of a set of values. It is derived by dividing the sum of a group of numerical items (or aggregate) by the total number of items. Aggregates are used in computing mean values. For example, mean family income is obtained by dividing the aggregate of all income reported by persons in families by the total number of families. (Additional information on means and aggregates is included in the separate explanations of many population and housing subjects.)

Median

This measure represents the middle value in a distribution. The median divides the total frequency into two equal parts: one-half of the cases fall below the median and one-half of the cases exceed the median. The median is

computed on the basis of the distribution as tabulated, which is sometimes more detailed than the distribution shown in specific census publications and other data products.

In reports, if the median falls within the upper interval of the tabulation distribution, the median is shown as the initial value of the interval followed by a plus sign (+); if within the lower interval, the median is shown as the upper value of the category followed by a minus sign (-). For summary tape files, if the median falls within the upper or lower interval, it is set to a specified value. (Additional information on medians is included in the separate explanations of many population and housing subjects.)

Percentages, Rates, and Ratios

These measures are frequently presented in census products to compare two numbers or two sets of measurements. These comparisons are made in two ways: (1)

subtraction, which provides an absolute measure of the difference between two items, and (2) the quotient of two numbers, which provides a relative measure of difference.

Quartile

This measure divides a distribution into four equal parts. The first quartile (or lower quartile) is the value that defines the upper limit of the lowest one-quarter of the cases. The second quartile is the median. The third quartile (or upper quartile) defines the lower limit of the upper one-quarter of the cases in the distribution. The difference between the upper and lower quartiles is called the interquartile range. This interquartile range is less affected by wide variations than is the mean. Quartiles are presented for certain financial characteristics such as housing value and rent.

APPENDIX C.

Accuracy of the Data

CONTENTS

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INTRODUCTION

The data contained in this data product are based on the 1990 census sample. The data are estimates of the actual figures that would have been obtained from a complete count. Estimates derived from a sample are expected to be different from the 100-percent figures because they are subject to sampling and nonsampling errors. Sampling error in data arises from the selection of persons and housing units to be included in the sample. Nonsampling error affects both sample and 100-percent data, and is introduced as a result of errors that may occur during the collection and processing phases of the census. Provided below is a detailed discussion of both types of errors and a description of the estimation procedures.

SAMPLE DESIGN

Every person and housing unit in the United States was asked certain basic demographic and housing questions (for example, race, age, marital status, housing value, or rent). A sample of these persons and housing units was asked more detailed questions about such items as income, occupation, and housing costs in addition to the basic demographic and housing information. The primary sampling unit for the 1990 census was the housing unit, including all occupants. For persons living in group quarters, the sampling unit was the person. Persons in group quarters were sampled at a 1-in-6 rate.

The sample designation method depended on the data collection procedures. Approximately 95 percent of the population was enumerated by the mailback procedure. In these areas, the Bureau of the Census either purchased a commercial mailing list, which was updated by the United States Postal Service and Census Bureau field staff, or prepared a mailing list by canvassing and listing each address in the area prior to Census Day. These lists were computerized and the appropriate units were electronically designated as sample units. The questionnaires were either mailed or hand-delivered to the addresses with instructions to complete and mail back the form.

ACCURACY OF THE DATA

Housing units in governmental units with a precensus (1988) estimated population of fewer than 2,500 persons were sampled at 1-in-2. Governmental units were defined for sampling purposes as all incorporated places, all counties, all county equivalents such as parishes in Louisiana, and all minor civil divisions in Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin. Housing units in census tracts and block numbering areas (BNA's) with a precensus housing unit count below 2,000 housing units were sampled at 1-in-6 for those portions not in small governmental units (governmental units with a population less than 2,500). Housing units within census tracts and BNA's with 2,000 or more housing units were sampled at 1-in-8 for those portions not in small governmental units.

In list/enumerate areas (about 5 percent of the population), each enumerator was given a blank address register with designated sample lines. Beginning about Census Day, the enumerator systematically canvassed an assigned area and listed all housing units in the address register in the order they were encountered. Completed questionnaires, including sample information for any housing unit listed on a designated sample line, were collected. For all governmental units with fewer than 2,500 persons in list/enumerate areas, a 1-in-2 sampling rate was used. All other list/enumerate areas were sampled at 1-in-6.

Housing units in American Indian reservations, tribal jurisdiction statistical areas, and Alaska Native villages were sampled according to the same criteria as other governmental units, except the sampling rates were based on the size of the American Indian and Alaska Native population in those areas as measured in the 1980 census. Trust lands were sampled at the same rate as their associated American Indian reservations. Census designated places in Hawaii were sampled at the same rate as governmental units because the Census Bureau does not recognize incorporated places in Hawaii.

The purpose of using variable sampling rates was to provide relatively more reliable estimates for small areas and decrease respondent burden in more densely populated areas while maintaining data reliability. When all sampling rates were taken into account across the Nation, approximately one out of every six housing units in the Nation was included in the 1990 census sample.

CONFIDENTIALITY OF THE DATA

To maintain the confidentiality required by law (Title 13, United States Code), the Bureau of the Census applies a confidentiality edit to the 1990 census data to assure that

published data do not disclose information about specific individuals, households, or housing units. As a result, a small amount of uncertainty is introduced into the estimates of census characteristics. The sample itself provides adequate protection for most areas for which sample data are published since the resulting data are estimates of the actual counts; however, small areas require more protection. The edit is controlled so that the basic structure of the data is preserved.

The confidentiality edit is implemented by selecting a small subset of individual households from the internal sample data files and blanking a subset of the data items on these household records. Responses to those data items were then imputed using the same imputation procedures that were used for nonresponse. A larger subset of households is selected for the confidentiality edit for small areas to provide greater protection for these areas. The editing process is implemented in such a way that the quality and usefulness of the data were preserved.

ERRORS IN THE DATA

Since statistics in this data product are based on a sample, they may differ somewhat from 100-percent figures that would have been obtained if all housing units, persons within those housing units, and persons living in group quarters had been enumerated using the same questionnaires, instructions, enumerators, etc. The sample estimate also would differ from other samples of housing units, persons within those housing units, and persons living in group quarters. The deviation of a sample estimate from the average of all possible samples is called the sampling error. The standard error of a sample estimate is a measure of the variation among the estimates from all the possible samples and thus is a measure of the precision with which an estimate from a particular sample approximates the average result of all possible samples. The sample estimate and its estimated standard error permit the construction of interval estimates with prescribed confidence that the interval includes the average result of all possible samples. Described below is the method of calculating standard errors and confidence intervals for the data in this product.

In addition to the variability which arises from the sampling procedures, both sample data and 100-percent data are subject to nonsampling error. Nonsampling error may be introduced during any of the various complex operations used to collect and process census data. For example, operations such as editing, reviewing, or handling questionnaires may introduce error into the data. A detailed discussion of the sources of nonsampling error is given in the section on "Control of Nonsampling Error" in this appendix.

Nonsampling error may affect the data in two ways. Errors that are introduced randomly will increase the variability of the data and should therefore be reflected in the standard error. Errors that tend to be consistent in one

direction will make both sample and 100-percent data biased in that direction. For example, if respondents consistently tend to under-report their income, then the resulting counts of households or families by income category will tend to be understated for the higher income categories and overstated for the lower income categories. Such biases are not reflected in the standard error.

Calculation of Standard Errors

Totals and Percentages—Tables A through C in this appendix contain the information necessary to calculate the standard errors of sample estimates in this data product. To calculate the standard error, it is necessary to know the basic standard error for the characteristic (given in table A or B) that would result under a simple random sample design (of persons, households, or housing units) and estimation technique; the design factor for the particular characteristic estimated (given in table C); and the number of persons or housing units in the tabulation area and the percent of these in the sample. For machine-readable products, the percent-in-sample is included in a data matrix on the file for each tabulation area. In printed reports, the percent-in-sample is provided in data tables at the end of the statistical tables that compose the report. The design factors reflect the effects of the actual sample design and complex ratio estimation procedure used for the 1990 census. Tape purchasers will receive table C, the table of design factors, as a supplement to the technical documentation. Table C is included in this appendix for printed reports.

The steps given below should be used to calculate the standard error of an estimate of a total or a percentage contained in this product. A percentage is defined here as a ratio of a numerator to a denominator where the numerator is a subset of the denominator. For example, the proportion of Black teachers is the ratio of Black teachers to all teachers.

1. Obtain the standard error from table A or B (or use the formula given below the table) for the estimated total or percentage, respectively.
2. Find the geographic area to which the estimate applies in the appropriate percent-in-sample table or appropriate matrix, and obtain the person or housing unit "percent-in-sample" figure for this area. Use the person "percent-in-sample" figure for person and family characteristics. Use the housing unit "percent-in-sample" figure for housing unit characteristics.
3. Use table C to obtain the design factor for the characteristic (for example, employment status, school enrollment) and the range that contains the percent-in-sample with which you are working. Multiply the basic standard error by this factor.

The unadjusted standard errors of zero estimates or of very small estimated totals or percentages will approach zero. This is also the case for very large percentages or

estimated totals that are close to the size of the tabulation areas to which they correspond. Nevertheless, these estimated totals and percentages still are subject to sampling and nonsampling variability, and an estimated standard error of zero (or a very small standard error) is not appropriate. For estimated percentages that are less than 2 or greater than 98, use the basic standard errors in table B that appear in the "2 or 98" row. For an estimated total that is less than 50 or within 50 of the total size of the tabulation area, use a basic standard error of 16.

An illustration of the use of the tables is given in the section entitled "Use of Tables to Compute Standard Errors."

Sums and Differences—The standard errors estimated from these tables are not directly applicable to sums of and differences between two sample estimates. To estimate the standard error of a sum or difference, the tables are to be used somewhat differently in the following three situations:

1. For the sum of or difference between a sample estimate and a 100-percent value, use the standard error of the sample estimate. The complete count value is not subject to sampling error.
2. For the sum of or difference between two sample estimates, the appropriate standard error is approximately the square root of the sum of the two individual standard errors squared; that is, for standard errors:

$SE_{\hat{X}}$ and $SE_{\hat{Y}}$ of estimates \hat{X} and \hat{Y} :

$$SE_{(\hat{X} + \hat{Y})} = SE_{(\hat{X} - \hat{Y})} = \sqrt{(SE_{\hat{X}})^2 + (SE_{\hat{Y}})^2}$$

This method, however, will underestimate (overestimate) the standard error if the two items in a sum are highly positively (negatively) correlated or if the two items in a difference are highly negatively (positively) correlated. This method may also be used for the difference between (or sum of) sample estimates from two censuses or from a census sample and another survey. The standard error for estimates not based on the 1990 census sample must be obtained from an appropriate source outside of this appendix.

3. For the differences between two estimates, one of which is a subclass of the other, use the tables directly where the calculated difference is the estimate of interest. For example, to determine the estimate of non-Black teachers, one may subtract the estimate of Black teachers from the estimate of total teachers. To determine the standard error of the estimate of non-Black teachers apply the above formula directly.

Ratios—Frequently, the statistic of interest is the ratio of two variables, where the numerator is not a subset of the

denominator. For example, the ratio of teachers to students in public elementary schools. The standard error of the ratio between two sample estimates is estimated as follows:

1. If the ratio is a proportion, then follow the procedure outlined for "Totals and Percentages."
2. If the ratio is not a proportion, then approximate the standard error using the formula below.

$$SE_{(\hat{X}/\hat{Y})} = \frac{\hat{X}}{\hat{Y}} \sqrt{\frac{(SE_{\hat{X}})^2}{\hat{X}^2} + \frac{(SE_{\hat{Y}})^2}{\hat{Y}^2}}$$

Medians—For the standard error of the median of a characteristic, it is necessary to examine the distribution from which the median is derived, as the size of the base and the distribution itself affect the standard error. An approximate method is given here. As the first step, compute one-half of the number on which the median is based (refer to this result as $N/2$). Treat $N/2$ as if it were an ordinary estimate and obtain its standard error as instructed above. Compute the desired confidence interval about $N/2$. Starting with the lowest value of the characteristic, cumulate the frequencies in each category of the characteristic until the sum equals or first exceeds the lower limit of the confidence interval about $N/2$. By linear interpolation, obtain a value of the characteristic corresponding to this sum. This is the lower limit of the confidence interval of the median. In a similar manner, continue cumulating frequencies until the sum equals or exceeds the count in excess of the upper limit of the interval about $N/2$. Interpolate as before to obtain the upper limit of the confidence interval for the estimated median.

When interpolation is required in the upper open-ended interval of a distribution to obtain a confidence bound, use 1.5 times the lower limit of the open-ended confidence interval as the upper limit of the open-ended interval.

Confidence Intervals

A sample estimate and its estimated standard error may be used to construct confidence intervals about the estimate. These intervals are ranges that will contain the average value of the estimated characteristic that results over all possible samples, with a known probability. For example, if all possible samples that could result under the 1990 census sample design were independently selected and surveyed under the same conditions, and if the estimate and its estimated standard error were calculated for each of these samples, then:

1. Approximately 68 percent of the intervals from one estimated standard error below the estimate to one estimated standard error above the estimate would contain the average result from all possible samples;

2. Approximately 90 percent of the intervals from 1.645 times the estimated standard error below the estimate to 1.645 times the estimated standard error above the estimate would contain the average result from all possible samples.

3. Approximately 95 percent of the intervals from two estimated standard errors below the estimate to two estimated standard errors above the estimate would contain the average result from all possible samples.

The intervals are referred to as 68 percent, 90 percent, and 95 percent confidence intervals, respectively.

The average value of the estimated characteristic that could be derived from all possible samples is or is not contained in any particular computed interval. Thus, we cannot make the statement that the average value has a certain probability of falling between the limits of the calculated confidence interval. Rather, one can say with a specified probability of confidence that the calculated confidence interval includes the average estimate from all possible samples (approximately the 100-percent value).

Confidence intervals also may be constructed for the ratio, sum of, or difference between two sample figures. This is done by first computing the ratio, sum, or difference, then obtaining the standard error of the ratio, sum, or difference (using the formulas given earlier), and finally forming a confidence interval for this estimated ratio, sum, or difference as above. One can then say with specified confidence that this interval includes the ratio, sum, or difference that would have been obtained by averaging the results from all possible samples.

The estimated standard errors given in this appendix do not include all portions of the variability due to nonsampling error that may be present in the data. The standard errors reflect the effect of simple response variance, but not the effect of correlated errors introduced by enumerators, coders, or other field or processing personnel. Thus, the standard errors calculated represent a lower bound of the total error. As a result, confidence intervals formed using these estimated standard errors may not meet the stated levels of confidence (i.e., 68, 90, or 95 percent). Thus, some care must be exercised in the interpretation of the data in this data product based on the estimated standard errors.

A standard sampling theory text should be helpful if the user needs more information about confidence intervals and nonsampling errors.

Use of Tables to Compute Standard Errors

The following is a hypothetical example of how to compute a standard error of a total and a percentage. Suppose a particular data table shows that for City A 9,948 persons out of all 15,888 persons age 16 years and over were in the civilian labor force. The percent-in-sample

table lists City A with a percent-in-sample of 16.0 percent (Persons column). The column in table C which includes 16.0 percent-in-sample shows the design factor to be 1.1 for "Employment status."

The basic standard error for the estimated total 9,948 may be obtained from table A or from the formula given below table A. In order to avoid interpolation, the use of the formula will be demonstrated here. Suppose that the total population of City A was 21,220. The formula for the basic standard error, SE, is

$$SE(9,948) = \sqrt{5(9,948) (1 - 9,948 / 21,220)}$$

$$= 163 \text{ persons.}$$

The standard error of the estimated 9,948 persons 16 years and over who were in the civilian labor force is found by multiplying the basic standard error 163 by the design factor, 1.1 from table C. This yields an estimated standard error of 179 for the total number of persons 16 years and over in City A who were in the civilian labor force.

The estimated percent of persons 16 years and over who were in the civilian labor force in City A is 62.6. From table B, the unadjusted standard error is found to be approximately 0.85 percentage points. The standard error for the estimated 62.6 percent of persons 16 years and over who were in the civilian labor force is $0.85 \times 1.1 = 0.94$ percentage points.

A note of caution concerning numerical values is necessary. Standard errors of percentages derived in this manner are approximate. Calculations can be expressed to several decimal places, but to do so would indicate more precision in the data than is justifiable. Final results should contain no more than two decimal places when the estimated standard error is one percentage point (i.e., 1.00) or more.

In the previous example, the standard error of the 9,948 persons 16 years and over in City A who were in the civilian labor force was found to be 179. Thus, a 90 percent confidence interval for this estimated total is found to be:

$$[9,948 - 1.645(179)] \text{ to } [9,948 + 1.645(179)]$$

$$\text{or}$$

$$9,654 \text{ to } 10,242$$

One can say, with about 90 percent confidence, that this interval includes the value that would have been obtained by averaging the results from all possible samples.

The following is an illustration of the calculation of standard errors and confidence intervals when a difference between two sample estimates is obtained. For example, suppose the number of persons in City B age 16 years and over who were in the civilian labor force was 9,314 and the total number of persons 16 years and over was 16,666. Further suppose the population of City B was 25,225. Thus, the estimated percentage of persons 16 years and over who were in the civilian labor force is 55.9 percent. The unadjusted standard error determined using the formula provided at the bottom of table B is 0.86

percentage points. We find that City B had a percent-in-sample of 15.7. The range which includes 15.7 percent-in-sample in table C shows the design factor to be 1.1 for "Employment Status." Thus, the approximate standard error of the percentage (55.9 percent) is $0.86 \times 1.1 = 0.95$ percentage points.

Now suppose that one wished to obtain the standard error of the difference between City A and City B of the percentages of persons who were 16 years and over and who were in the civilian labor force. The difference in the percentages of interest for the two cities is:

$$62.6 - 55.9 = 6.7 \text{ percent.}$$

Using the results of the previous example:

$$SE(6.7) = \sqrt{(SE(62.6))^2 + (SE(55.9))^2} = \sqrt{(0.94)^2 + (0.95)^2} \\ = 1.34 \text{ percentage points}$$

The 90 percent confidence interval for the difference is formed as before:

$$[6.70 - 1.645(1.34)] \text{ to } [6.70 + 1.645(1.34)] \\ \text{or} \\ 4.50 \text{ to } 8.90$$

One can say with 90 percent confidence that the interval includes the difference that would have been obtained by averaging the results from all possible samples.

For reasonably large samples, ratio estimates are normally distributed, particularly for the census population. Therefore, if we can calculate the standard error of a ratio estimate then we can form a confidence interval around the ratio. Suppose that one wished to obtain the standard error of the ratio of the estimate of persons who were 16 years and over and who were in the civilian labor force in City A to the estimate of persons who were 16 years and over and who were in the civilian labor force in City B. The ratio of the two estimates of interest is:

$$9948/9314 = 1.07$$

$$SE(1.07) = \left(\frac{9948}{9314} \right) \sqrt{\frac{179^2}{(9948)^2} + \frac{188^2}{(9314)^2}} \\ = .029$$

Using the results above, the 90 percent confidence interval for this ratio would be:

$$[1.07 - 1.645(.029)] \text{ to } [1.07 + 1.645(.029)] \\ \text{or} \\ 1.02 \text{ to } 1.12$$

ESTIMATION PROCEDURE

The estimates which appear in this publication were obtained from an iterative ratio estimation procedure (iterative proportional fitting) resulting in the assignment of a weight to each sample person or housing unit record. For

any given tabulation area, a characteristic total was estimated by summing the weights assigned to the persons or housing units possessing the characteristic in the tabulation area. Estimates of family or household characteristics were based on the weight assigned to the family member designated as householder. Each sample person or housing unit record was assigned exactly one weight to be used to produce estimates of all characteristics. For example, if the weight given to a sample person or housing unit had the value 6, all characteristics of that person or housing unit would be tabulated with the weight of 6. The estimation procedure, however, did assign weights varying from person to person or housing unit to housing unit. The estimation procedure used to assign the weights was performed in geographically defined "weighting areas." Weighting areas generally were formed of contiguous geographic units which agreed closely with census tabulation areas within counties. Weighting areas were required to have a minimum sample of 400 persons. Weighting areas never crossed State or county boundaries. In small counties with a sample count below 400 persons, the minimum required sample condition was relaxed to permit the entire county to become a weighting area.

Within a weighting area, the ratio estimation procedure for persons was performed in four stages. For persons, the first stage applied 17 household-type groups. The second stage used two groups: sampling rate of 1-in-2; sampling rate less than 1-in-2. The third stage used the dichotomy householders/nonhouseholders. The fourth stage applied 180 aggregate age-sex-race-Hispanic origin categories. The stages were as follows:

PERSONS

STAGE I: TYPE OF HOUSEHOLD

Group	Persons in Housing Units With a Family With Own Children Under 18
1	2 persons in housing unit
2	3 persons in housing unit
3	4 persons in housing unit
4	5 to 7 persons in housing unit
5	8 or more persons in housing unit
	Persons in Housing Units With a Family Without Own Children Under 18
6-10	2 through 8 or more persons in housing unit
	Persons in All Other Housing Units
11	1 person in housing unit
12-16	2 through 8 or more persons in housing unit
	Persons in Group Quarters
17	Persons in Group Quarters

STAGE II: SAMPLING RATES

1	Sampling rate of 1-in-2
2	Sampling rate less than 1-in-2

STAGE III: HOUSEHOLDER/NONHOUSEHOLDER

1	Householder
2	Nonhouseholder

STAGE IV: AGE/SEX/RACE/HISPANIC ORIGIN

Group	White
	Persons of Hispanic Origin
	Male
1	0 to 4 years
2	5 to 14 years
3	15 to 19 years
4	20 to 24 years
5	25 to 34 years
6	35 to 54 years
7	55 to 64 years
8	65 to 74 years
9	75 years and over
	Female
10-18	Same age categories as groups 1 through 9.
	Persons Not of Hispanic Origin
19-36	Same sex and age categories as groups 1 through 18.
	Black
37-72	Same age/sex/Hispanic origin categories as groups 1 through 36.
	Asian or Pacific Islander
73-108	Same age/sex/Hispanic origin categories as groups 1 through 36.
	American Indian, Eskimo, or Aleut
109-144	Same age/sex/Hispanic origin categories as groups 1 through 36.
	Other Race (includes those races not listed above)
145-180	Same age/sex/Hispanic origin categories as groups 1 through 36.

Within a weighting area, the first step in the estimation procedure was to assign an initial weight to each sample person record. This weight was approximately equal to the inverse of the probability of selecting a person for the census sample.

The next step in the estimation procedure, prior to iterative proportional fitting, was to combine categories in each of the four estimation stages, when needed to increase the reliability of the ratio estimation procedure. For each stage, any group that did not meet certain criteria for the unweighted sample count or for the ratio of the 100-percent to the initially weighted sample count, was combined, or collapsed, with another group in the same stage according to a specified collapsing pattern. At the fourth stage, an additional criterion concerning the number of complete count persons in each race/Hispanic origin category was applied.

As the final step, the initial weights for the four stages of ratio adjustment applying the grouping procedures described above. At the first stage, the ratio of the complete census count to the sum of the initial weights for each sample person was computed for each stage I group. The initial weight assigned to each person in a group was then multiplied by the stage I group ratio to produce an adjusted weight.

In stage II, the stage I adjusted weights were again adjusted by the ratio of the complete census count to the sum of the stage I weights for sample persons in each stage II group. Next, at stage III, the stage II weights were adjusted by the ratio of the complete census count to the sum of the stage II weights for sample persons in each stage III group. Finally, at stage IV, the stage III weights were adjusted by the ratio of the complete census count to the sum of the stage III weights for sample persons in each stage IV group. The four stages of ratio adjustment were performed two times (two iterations) in the order given above. The weights obtained from the second iteration for stage IV were assigned to the sample person records. However, to avoid complications in rounding for tabulated data, only whole number weights were assigned. For example, if the final weight of the persons in a particular group was 7.25 then 1/4 of the sample persons in this group were randomly assigned a weight of 8, while the remaining 3/4 received a weight of 7.

The ratio estimation procedure for housing units was essentially the same as that for persons, except that vacant units were treated differently. The occupied housing unit ratio estimation procedure was done in four stages, and the vacant housing unit ratio estimation procedure was done in a single stage. The first stage for occupied housing units applied 16 household type categories, while the second stage used the two sampling categories described above for persons. The third stage applied three units-in-structure categories; i.e. single units, multi-unit less than 10 and multi-unit 10 or more. The fourth stage could potentially use 200 tenure-race-Hispanic origin-value/rent groups. The stages for ratio estimation for housing units were as follows:

OCCUPIED HOUSING UNITS

STAGE I: TYPE OF HOUSEHOLD

Group	Housing Units With a Family With Own Children Under 18
1	2 persons in housing unit
2	3 persons in housing unit
3	4 persons in housing unit
4	5 to 7 persons in housing unit
5	8 or more persons in housing unit
	Housing Units With a Family Without Own Children Under 18
6-10	2 through 8 or more persons in housing unit

STAGE I: TYPE OF HOUSEHOLD—Con.

	All Other Housing Units
11	1 person in housing unit
12-16	2 through 8 or more persons in housing unit

STAGE II: SAMPLING RATE CATEGORY

1	Sampling rate of 1-in-2
2	Sampling rate less than 1-in-2

STAGE III: UNITS IN STRUCTURE

1	Single unit structure
2	Multi-unit structure consisting of fewer than 10 individual units
3	Multi-unit structure consisting of 10 or more individual units

STAGE IV: TENURE/RACE AND HISPANIC ORIGIN OF HOUSEHOLDER/VALUE OR RENT

Group	Owner
	White Householder
	Householder of Hispanic Origin
	Value
1	Less than \$20,000
2	\$20,000 to \$39,999
3	\$40,000 to \$59,999
4	\$60,000 to \$79,999
5	\$80,000 to \$99,999
6	\$100,000 to \$149,999
7	\$150,000 to \$249,999
8	\$250,000 to \$299,999
9	\$300,000 or more
10	Other ¹
11-20	Householder Not of Hispanic Origin Same value categories as groups 1 through 10
21-40	Black Householder Same Hispanic origin/value categories as groups 1 through 20
41-60	Asian or Pacific Islander Householder Same Hispanic origin/value categories as groups 1 through 20
61-80	American Indian, Eskimo, or Aleut Householder Same Hispanic origin/value categories as groups 1 through 20
81-100	Householder of Other Race Same Hispanic origin/value categories as groups 1 through 20

Renter

White Householder
Householder of Hispanic origin
Rent

101	Less than \$100
102	\$100 to \$199
103	\$200 to \$299
104	\$300 to \$399
105	\$400 to \$499
106	\$500 to \$599
107	\$600 to \$749
108	\$750 to \$999
109	\$1,000 or more
110	No cash rent

Householder Not of Hispanic Origin
Same rent categories as groups 101 through 110

Black Householder

Same Hispanic origin/rent categories as groups 101 through 120

Asian or Pacific Islander Householder

Same Hispanic origin/rent categories as groups 101 through 120

American Indian, Eskimo, or Aleut Householder

Same Hispanic origin/rent categories as groups 101 through 120

Householder of Other Race

Same Hispanic origin/rent categories as groups 101 through 120

Vacant Housing Units

1	Vacant for rent
2	Vacant for sale
3	Other vacant

The estimates produced by this procedure realize some of the gains in sampling efficiency that would have resulted if the population had been stratified into the ratio estimation groups before sampling, and if the sampling rate had been applied independently to each group. The net effect is a reduction in both the standard error and the possible bias of most estimated characteristics to levels below what would have resulted from simply using the initial, unadjusted weight. A by-product of this estimation procedure is that the estimates from the sample will, for the most part, be consistent with the complete count figures for the population and housing unit groups used in the estimation procedure.

¹Value of units in this category results from other factors besides housing value alone, for example, inclusion of more than 10 acres of land, or presence of a business establishment on the premises.

Control of Nonsampling Error

As mentioned earlier, both sample and 100-percent data are subject to nonsampling error. This component of error could introduce serious bias into the data, and the total error could increase dramatically over that which would result purely from sampling. While it is impossible to completely eliminate nonsampling error from an operation as large and complex as the decennial census, the Bureau of the Census attempted to control the sources of such error during the collection and processing operations. Described below are the primary sources of nonsampling error and the programs instituted for control of this error. The success of these programs, however, was contingent upon how well the instructions actually were carried out during the census. As part of the 1990 census evaluation program, both the effects of these programs and the amount of error remaining after their application will be evaluated.

Undercoverage—It is possible for some households or persons to be missed entirely by the census. The undercoverage of persons and housing units can introduce biases into the data.

Several coverage improvement programs were implemented during the development of the census address list and census enumeration and processing to minimize undercoverage of the population and housing units. These programs were developed based on experience from the 1980 census and results from the 1990 census testing cycle. In developing and updating the census address list, the Census Bureau used a variety of specialized procedures in different parts of the country.

- In the large urban areas, the Census Bureau purchased and geocoded address lists. Concurrent with geocoding, the United States Postal Service (USPS) reviewed and updated this list. After the postal check, census enumerators conducted a dependent canvass and update operation. In the fall of 1989, local officials were given the opportunity to examine block counts of address listings (local review) and identify possible errors. Prior to mailout, the USPS conducted a final review.
- In small cities, suburban areas, and selected rural parts of the country, the Census Bureau created the address list through a listing operation. The USPS reviewed and updated this list, and the Census Bureau reconciled USPS corrections and updated through a field operation. In the fall of 1989, local officials participated in reviewing block counts of address listings. Prior to mailout, the USPS conducted a final review.
- The Census Bureau (rather than the USPS) conducted a listing operation in the fall of 1989 and delivered census questionnaires in selected rural and seasonal housing areas in March of 1990. In some inner-city public housing developments, whose addresses had been obtained via the purchased address list noted above, census questionnaires were also delivered by Census Bureau enumerators.

Coverage improvement programs continued during and after mailout. A recheck of units initially classified as vacant or nonexistent improved further the coverage of persons and housing units. All local officials were given the opportunity to participate in a post-census local review, and census enumerators conducted an additional canvass. In addition, efforts were made to improve the coverage of unique population groups, such as the homeless and parolees/probationers. Computer and clerical edits and telephone and personal visit followup also contributed to improved coverage.

More extensive discussion of the programs implemented to improve coverage will be published by the Census Bureau when the evaluation of the coverage improvement program is completed.

Respondent and Enumerator Error—The person answering the questionnaire or responding to the questions posed by an enumerator could serve as a source of error, although the questions were phrased as clearly as possible based on precensus tests, and detailed instructions for completing the questionnaire were provided to each household. In addition, respondents' answers were edited for completeness and consistency, and problems were followed up as necessary.

The enumerator may misinterpret or otherwise incorrectly record information given by a respondent; may fail to collect some of the information for a person or household; or may collect data for households that were not designated as part of the sample. To control these problems, the work of enumerators was monitored carefully. Field staff were prepared for their tasks by using standardized training packages that included hands-on experience in using census materials. A sample of the households interviewed by enumerators for nonresponse were reinterviewed to control for the possibility of data for fabricated persons being submitted by enumerators. Also, the estimation procedure was designed to control for biases that would result from the collection of data from households not designated for the sample.

Processing Error—The many phases involved in processing the census data represent potential sources for the introduction of nonsampling error. The processing of the census questionnaires includes the field editing, followup, and transmittal of completed questionnaires; the manual coding of write-in responses; and the electronic data processing. The various field, coding and computer operations undergo a number of quality control checks to insure their accurate application.

Nonresponse—Nonresponse to particular questions on the census questionnaire allows for the introduction of bias into the data, since the characteristics of the nonrespondents have not been observed and may differ from those reported by respondents. As a result, any imputation procedure using respondent data may not completely

reflect this difference either at the elemental level (individual person or housing unit) or on the average. Some protection against the introduction of large biases is afforded by minimizing nonresponse. In the census, nonresponse was reduced substantially during the field operations by the various edit and followup operations aimed at obtaining a response for every question. Characteristics for the nonresponses remaining after this operation were imputed by the computer by using reported data for a person or housing unit with similar characteristics.

EDITING OF UNACCEPTABLE DATA

The objective of the processing operation is to produce a set of data that describes the population as accurately and clearly as possible. To meet this objective, questionnaires were edited during field data collection operations for consistency, completeness, and acceptability. Questionnaires also were reviewed by census clerks for omissions, certain specific inconsistencies, and population coverage. For example, write-in entries such as "Don't know" or "NA" were considered unacceptable. For some district offices, the initial edit was automated; however, for the majority of the district offices, it was performed by clerks. As a result of this operation, a telephone or personal visit followup was made to obtain missing information. Potential coverage errors were included in the followup, as well as a sample of questionnaires with omissions and/or inconsistencies.

Subsequent to field operations, remaining incomplete or inconsistent information on the questionnaires was assigned

using imputation procedures during the final automated edit of the collected data. Imputations, or computer assignments of acceptable codes in place of unacceptable entries or blanks, are needed most often when an entry for a given item is lacking or when the information reported for a person or housing unit on that item is inconsistent with other information for that same person or housing unit. As in previous censuses, the general procedure for changing unacceptable entries was to assign an entry for a person or housing unit that was consistent with entries for persons or housing units with similar characteristics. The assignment of acceptable codes in place of blanks or unacceptable entries enhances the usefulness of the data.

Another way in which corrections were made during the computer editing process was through substitution; that is, the assignment of a full set of characteristics for a person or housing unit. When there was an indication that a housing unit was occupied but the questionnaire contained no information for the people within the household or the occupants were not listed on the questionnaire, a previously accepted household was selected as a substitute, and the full set of characteristics for the substitute was duplicated. The assignment of the full set of housing characteristics occurred when there was no housing information available. If the housing unit was determined to be occupied, the housing characteristics were assigned from a previously processed occupied unit. If the housing unit was vacant, the housing characteristics were assigned from a previously processed vacant unit.

Table A. Unadjusted Standard Error for Estimated Totals

[Based on a 1-in-6 simple random sample]

Estimated Total ¹	Size of publication area ²													
	500	1,000	2,500	5,000	10,000	25,000	50,000	100,000	250,000	500,000	1,000,000	5,000,000	10,000,000	25,000,000
50	16	16	16	16	16	16	16	16	16	16	16	16	16	16
100	20	21	22	22	22	22	22	22	22	22	22	22	22	22
250	25	30	35	35	35	35	35	35	35	35	35	35	35	35
500	-	35	45	45	50	50	50	50	50	50	50	50	50	50
1,000	-	-	55	65	65	70	70	70	70	70	70	70	70	70
2,500	-	-	-	80	95	110	110	110	110	110	110	110	110	110
5,000	-	-	-	-	110	140	150	150	160	160	160	160	160	160
10,000	-	-	-	-	-	170	200	210	220	220	220	220	220	220
15,000	-	-	-	-	-	170	230	250	270	270	270	270	270	270
25,000	-	-	-	-	-	-	250	310	340	350	350	350	350	350
75,000	-	-	-	-	-	-	-	310	510	570	590	610	610	610
100,000	-	-	-	-	-	-	-	-	550	630	670	700	700	710
250,000	-	-	-	-	-	-	-	-	-	790	970	1 090	1 100	1 100
500,000	-	-	-	-	-	-	-	-	-	-	1 120	1 500	1 540	1 570
1,000,000	-	-	-	-	-	-	-	-	-	-	-	2 000	2 120	2 190
5,000,000	-	-	-	-	-	-	-	-	-	-	-	-	3 540	4 470
10,000,000	-	-	-	-	-	-	-	-	-	-	-	-	-	5 480

¹For estimated totals larger than 10,000,000, the standard error is somewhat larger than the table values. The formula given below should be used to calculate the standard error.

$$SE(\hat{Y}) = \sqrt{5\hat{Y}\left(1 - \frac{\hat{Y}}{N}\right)}$$

N = Size of area

\hat{Y} = Estimate of characteristic total

²The total count of persons in the area if the estimated total is a person characteristic, or the total count of housing units in the area if the estimated total is a housing unit characteristic.

Table B. Unadjusted Standard Error in Percentage Points for Estimated Percentage

[Based on a 1-in-6 simple random sample]

Estimated Percentage	Base of percentage ¹												
	500	750	1,000	1,500	2,500	5,000	7,500	10,000	25,000	50,000	100,000	250,000	500,000
2 or 98	1.4	1.1	1.0	0.8	0.6	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.1
5 or 95	2.2	1.8	1.5	1.3	1.0	0.7	0.6	0.5	0.3	0.2	0.2	0.1	0.1
10 or 90	3.0	2.4	2.1	1.7	1.3	0.9	0.8	0.7	0.4	0.3	0.2	0.1	0.1
15 or 85	3.6	2.9	2.5	2.1	1.6	1.1	0.9	0.8	0.5	0.4	0.3	0.2	0.1
20 or 80	4.0	3.3	2.8	2.3	1.8	1.3	1.0	0.9	0.6	0.4	0.3	0.2	0.1
25 or 75	4.3	3.5	3.1	2.5	1.9	1.4	1.1	1.0	0.6	0.4	0.3	0.2	0.1
30 or 70	4.6	3.7	3.2	2.6	2.0	1.4	1.2	1.0	0.6	0.5	0.3	0.2	0.1
35 or 65	4.8	3.9	3.4	2.8	2.1	1.5	1.2	1.1	0.7	0.5	0.3	0.2	0.2
50	5.0	4.1	3.5	2.9	2.2	1.6	1.3	1.1	0.7	0.5	0.4	0.2	0.2

¹For a percentage and/or base of percentage not shown in the table, the formula given below may be used to calculate the standard error. This table should only be used for proportions, that is, where the numerator is a subset of the denominator.

$$SE(\hat{p}) = \sqrt{\frac{5}{B}\hat{p}(100 - \hat{p})}$$

B = Base of estimated percentage

\hat{p} = Estimated percentage

Table C. Standard Error Design Factors—Montana

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.5
Household type and relationship	1.2	1.1	0.7	0.5
Children ever born	2.6	2.4	1.7	1.4
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	1.7	1.6	1.0	0.7
Place of birth	1.9	1.8	1.1	0.9
Citizenship	1.8	1.5	1.0	0.7
Residence in 1985	2.0	1.8	1.1	0.9
Year of entry	1.2	1.0	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.3	0.8	0.7
Educational attainment	1.3	1.1	0.7	0.5
School enrollment	1.7	1.4	0.9	0.7
Type of residence (urban/rural)	2.4	2.4	1.6	1.1
Household type	1.2	1.1	0.7	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	0.9	0.8	0.8	0.8
Subfamily type and presence of children	1.2	0.9	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.7	0.5
Place of work	1.5	1.2	0.8	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.7	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.5
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.3	1.1	0.7	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.4	1.1	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.0	1.0	0.6	0.4
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.2	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.1	1.1	0.8	0.6
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.1	1.0	0.5	0.4
House heating fuel	1.2	1.0	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.1	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.1	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.6	0.5

APPENDIX D.

Collection and Processing Procedures

CONTENTS

Data Collection Procedures	D-2
Enumeration and Residence Rules	D-1
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ENUMERATION AND RESIDENCE RULES

In accordance with census practice dating back to the first United States census in 1790, each person was to be enumerated as an inhabitant of his or her "usual residence" in the 1990 census. Usual residence is the place where the person lives and sleeps most of the time or considers to be his or her usual residence. This place is not necessarily the same as the person's legal residence or voting residence. In the vast majority of cases, however, the use of these different bases of classification would produce substantially the same statistics, although there might be appreciable differences for a few areas.

The implementation of this practice has resulted in the establishment of rules for certain categories of persons whose usual place of residence is not immediately apparent. Furthermore, this practice means that persons were not always counted as residents of the place where they happened to be staying on Census Day (April 1, 1990).

Enumeration Rules

Each person whose usual residence was in the United States was to be included in the census, without regard to the person's legal status or citizenship. In a departure from earlier censuses, foreign diplomatic personnel participated voluntarily in the census, regardless of their residence on or off the premises of an embassy. As in previous censuses, persons in the United States specifically excluded from the census were foreign travelers who had not established a residence.

Americans with a usual residence outside the United States were not enumerated in the 1990 census. United States military and Federal civilian employees, and their dependents overseas, are included in the population counts for States for purposes of Congressional apportionment, but are excluded from all other tabulations for States and their subdivisions. The counts of United States military and Federal civilian employees, and their dependents, were obtained from administrative records maintained by Federal departments and agencies. Other Americans living overseas, such as employees of international agencies

and private businesses and students, were not enumerated, nor were their counts obtained from administrative sources. On the other hand, Americans temporarily overseas were to be enumerated at their usual residence in the United States.

Residence Rules

Each person included in the census was to be counted at his or her usual residence—the place where he or she lives and sleeps most of the time or the place where the person considers to be his or her usual home. If a person had no usual residence, the person was to be counted where he or she was staying on April 1, 1990.

Persons temporarily away from their usual residence, whether in the United States or overseas, on a vacation or on a business trip, were counted at their usual residence. Persons who occupied more than one residence during the year were counted at the one they considered to be their usual residence. Persons who moved on or near Census Day were counted at the place they considered to be their usual residence.

Persons in the Armed Forces—Members of the Armed Forces were counted as residents of the area in which the installation was located, either on the installation or in the surrounding community. Family members of Armed Forces personnel were counted where they were living on Census Day (for example, with the Armed Forces person or at another location).

Each Navy ship not deployed to the 6th or 7th Fleet was attributed to the municipality that the Department of the Navy designated as its homeport. If the homeport included more than one municipality, ships berthed there on Census Day were assigned by the Bureau of the Census to the municipality in which the land immediately adjacent to the dock or pier was actually located. Ships attributed to the homeport, but not physically present and not deployed to the 6th or 7th Fleet, were assigned to the municipality named on the Department of the Navy's homeport list. These rules also apply to Coast Guard vessels.

Personnel assigned to each Navy and Coast Guard ship were given the opportunity to report a residence off the ship. Those who did report an off-ship residence in the communities surrounding the homeport were counted there; those who did not were counted as residents of the ship. Personnel on Navy ships deployed to the 6th or 7th Fleet on Census Day were considered to be part of the overseas population.

Persons on Maritime Ships—Persons aboard maritime ships who reported an off-ship residence were counted at that residence. Those who did not were counted as residents of the ship, and were attributed as follows:

1. The port where the ship was docked on Census Day, if that port was in the United States or its territories.
2. The port of departure if the ship was at sea, provided the port was in the United States or its territories.
3. The port of destination in the United States or its territories, if the port of departure of a ship at sea was a foreign port.
4. The overseas population if the ship was docked at a foreign port or at sea between foreign ports. (These persons were not included in the overseas population for apportionment purposes.)

Persons Away at School—College students were counted as residents of the area in which they were living while attending college, as they have been since the 1950 census. Children in boarding schools below the college level were counted at their parental home.

Persons in Institutions—Persons under formally authorized, supervised care or custody, such as in Federal or State prisons; local jails; Federal detention centers; juvenile institutions; nursing, convalescent, and rest homes for the aged and dependent; or homes, schools, hospitals, or wards for the physically handicapped, mentally retarded, or mentally ill, were counted at these places.

Persons Away From Their Usual Residence on Census Day—Migrant agricultural workers who did not report a usual residence elsewhere were counted as residents of the place where they were on Census Day. Persons in worker camps who did not report a usual residence elsewhere were counted as residents of the camp where they were on Census Day.

In some parts of the country, natural disasters displaced significant numbers of households from their usual place of residence. If these persons reported a destroyed or damaged residence as their usual residence, they were counted at that location.

Persons away from their usual residence were counted by means of interviews with other members of their families, resident managers, or neighbors.

DATA COLLECTION PROCEDURES

The 1990 census was conducted primarily through self-enumeration. The questionnaire packet included general information about the 1990 census and an instruction guide explaining how to complete the questionnaire. Spanish-language questionnaires and instruction guides were available on request. Instruction guides also were available in 32 other languages.

Enumeration of Housing Units

Each housing unit in the country received one of two versions of the census questionnaire:

1. A short-form questionnaire that contained a limited number of basic population and housing questions; these questions were asked of all persons and housing units and are often referred to as 100-percent questions.
2. A long-form questionnaire that contained the 100-percent items and a number of additional questions; a sampling procedure was used to determine those housing units that were to receive the long-form questionnaire.

Three sampling rates were employed. For slightly more than one-half of the country, one in every six housing units (about 17 percent) received the long-form or sample questionnaire. In functioning local governmental units (counties and incorporated places, and in some parts of the country, towns and townships) estimated to have fewer than 2,500 inhabitants, every other housing unit (50 percent) received the sample questionnaire in order to enhance the reliability of the sample data for these small areas. For census tracts and block numbering areas having more than 2,000 housing units in the Census Bureau's address files, one in every eight housing units (about 13 percent) received a sample questionnaire, providing reliable statistics for these areas while permitting the Census Bureau to stay within a limit of 17.7 million sample questionnaires, or a one-in-six sample, nationwide.

The mail-out/mail-back procedure was used mainly in cities, suburban areas, towns, and rural areas where mailing addresses consisted of a house number and street name. In these areas, the Census Bureau developed mailing lists that included about 88.4 million addresses. The questionnaires were delivered through the mail and respondents were to return them by mail. Census questionnaires were delivered 1 week before Census Day (April 1, 1990).

The update/leave/mail-back method was used mainly in densely populated rural areas where it was difficult to develop mailing lists because mailing addresses did not use house number and street name. The Census Bureau compiled lists of housing units in advance of the census. Enumerators delivered the questionnaires, asked respondents to return them by mail, and added housing units not on the mailing lists. This method was used mainly in the South and Midwest, and also included some high-rise, low-income urban areas. A variation of this method was used in urban areas having large numbers of boarded-up buildings. About 11 million housing units were enumerated using this method.

The list/enumerate method (formerly called conventional or door-to-door enumeration) was used mainly in very remote and sparsely-settled areas. The United States

Postal Service delivered unaddressed short-form questionnaires before Census Day. Starting a week before Census Day, enumerators canvassed these areas, checked that all housing units received a questionnaire, created a list of all housing units, completed long-form questionnaires, and picked up the completed short-form questionnaires. This method was used mainly in the West and Northeast to enumerate an estimated 6.5 million housing units.

Followup

Nonresponse Followup—In areas where respondents were to mail back their questionnaires, an enumerator visited each address from which a questionnaire was not received.

Coverage and Edit-Failure Followup—In the mail-back areas, some households returned a questionnaire that did not meet specific quality standards because of incomplete or inconsistent information, or the respondent had indicated difficulty in deciding who was to be listed on the questionnaire. These households were contacted by telephone or by personal visit to obtain the missing information or to clarify who was to be enumerated in the household. In areas where an enumerator picked up the questionnaires, the enumerator checked the respondent-filled questionnaire for completeness and consistency.

Special Enumeration Procedures

Special procedures and questionnaires were used for the enumeration of persons in group quarters, such as college dormitories, nursing homes, prisons, military barracks, and ships. The questionnaires (Individual Census Reports, Military Census Reports, and Shipboard Census Reports) included the 100-percent population questions but did not include any housing questions. In all group quarters, all persons were asked the basic population questions; in most group quarters, additional questions were asked of a sample (one-in-six) of persons.

Shelter and Street Night (S-Night)

The Census Bureau collected data for various components of the homeless population at different stages in the 1990 census. "Shelter and Street Night" (S-Night) was a special census operation to count the population in four types of locations where homeless people are found. On the evening of March 20, 1990, and during the early morning hours of March 21, 1990, enumerators counted persons in pre-identified locations:

1. Emergency shelters for the homeless population (public and private; permanent and temporary).
2. Shelters with temporary lodging for runaway youths.
3. Shelters for abused women and their children.

4. Open locations in streets or other places not intended for habitation.

Emergency shelters include all hotels and motels costing \$12 or less (excluding taxes) per night regardless of whether persons living there considered themselves to be homeless, hotels and motels (regardless of cost) used entirely to shelter homeless persons, and pre-identified rooms in hotels and motels used for homeless persons and families. Enumeration in shelters usually occurred from 6 p.m. to midnight; street enumeration, from 2 a.m. to 4 a.m.; abandoned and boarded-up buildings from 4 a.m. to 8 a.m.; and shelters for abused women, from 6 p.m. on March 20 to noon on March 21.

Other components, which some consider as part of the homeless population, were enumerated as part of regular census operations. These include persons doubled up with other families, as well as persons with no other usual home living in transient sites, such as commercial campgrounds, maternity homes for unwed mothers, and drug/alcohol abuse detoxification centers. In institutions, such as local jails and mental hospitals, the Census Bureau does not know who has a usual home elsewhere; therefore, even though some are literally homeless, these persons cannot be identified separately as a component of the homeless population.

There is no generally agreed-upon definition of "the homeless," and there are limitations in the census count that prevent obtaining a total count of the homeless population under any definition. As such, the Census Bureau does not have a definition and will not provide a total count of "the homeless." Rather, the Census Bureau will provide counts and characteristics of persons found at the time of the census in *selected* types of living arrangements. These selected components can be used as building blocks to construct a count of homeless persons appropriate to particular purposes as long as the data limitations are taken into account.

In preparation for "Shelter-and-Street-Night" enumeration, the regional census centers (RCC's) mailed a certified letter (Form D-33 (L)) to the highest elected official of each active functioning government of the United States (more than 39,000) requesting them to identify:

1. All shelters with sleeping facilities (permanent and temporary, such as church basements, armories, public buildings, and so forth, that could be open on March 20).
2. Hotels and motels used to house homeless persons and families.
3. A list of outdoor locations where homeless persons tend to be at night.
4. Places such as bus or train stations, subway stations, airports, hospital emergency rooms, and so forth, where homeless persons seek shelter at night.

5. The specific addresses of abandoned or boarded-up buildings where homeless persons were thought to stay at night.

The letter from the RCC's to the governmental units emphasized the importance of listing night-time congregating sites. The list of shelters was expanded using information from administrative records and informed local sources. The street sites were limited to the list provided by the jurisdictions. All governmental units were eligible for "Shelter and Street Night." For cities with 50,000 or more persons, the Census Bureau took additional steps to update the list of shelter and street locations if the local jurisdiction did not respond to the certified letter. Smaller cities and rural areas participated if the local jurisdiction provided the Census Bureau a list of shelters or open public places to visit or if shelters were identified through our inventory development, local knowledge update, or during the Special Place Prelist operation.

The Census Bureau encouraged persons familiar with homeless persons and the homeless themselves to apply as enumerators. This recruiting effort was particularly successful in larger cities.

For shelters, both long- and short-form Individual Census Reports (ICR's) were distributed. For street enumeration, only short-form ICR's were used. Persons in shelters and at street locations were asked the basic population questions. Additional questions about social and economic characteristics were asked of a sample of persons in shelters only.

Enumerators were instructed *not* to ask who was homeless; rather, they were told to count all persons (including children) staying overnight at the shelters, and everyone they saw on the street except the police, other persons in uniform, and persons engaged in employment or obvious money-making activities other than begging and panhandling.

At both shelter and street sites, persons found sleeping were not awakened to answer questions. Rather, the enumerator answered the sex and race questions by observation and estimated the person's age to the best of his or her ability. In shelters, administrative records and information from the shelter operator were used, when available, for persons who were already asleep.

Less than 1 percent of shelters refused to participate in the census count at first. By the end of the census period, most of those eventually cooperated and the number of refusals had been reduced to a few. For the final refusals, head counts and population characteristics were obtained by enumerators standing outside such shelters and counting people as they left in the morning.

The "street" count was restricted to persons who were visible when the enumerator came to the open, public locations that had been identified by local jurisdictions. Homeless persons who were well hidden, moving about, or in locations other than those identified by the local governments were likely missed. The number missed will never be known and there is no basis to make an estimate

of the number missed from census data. The count of persons in open, public places was affected by many factors, including the extra efforts made to encourage people to go to shelters for "Shelter and Street Night," the weather (which was unusually cold in many parts of the country), the presence of the media, and distrust of the census. Expectations of the number of homeless persons on the street cannot be based on the number seen during the day because the night-time situation is normally very different as more homeless persons are in shelters or very well hidden.

For both "Shelter-and-Street-Night" locations, the Census Bureau assumed that the usual home of those enumerated was in the block where they were found (shelter or street).

The "Shelter-and-Street-Night" operation replaced and expanded the 1980 Mission Night (M-Night) and Casual Count operations. These two operations were aimed at counting the population who reported having no usual residence. M-Night was conducted a week after Census Day, in April 1980. Enumerators visited hotels, motels, and similar places costing \$4 or less each night; missions, flophouses, local jails and similar places at which the average length of stay was 30 days or less; and nonshelter locations, such as bus depots, train stations, and all night movie theaters. Questions were asked of everyone, regardless of age. Enumerators conducted M-Night up to midnight on April 8, 1980, and returned the next morning to collect any forms completed after midnight.

The Casual Count operation was conducted in May 1980 at additional nonshelter locations, such as street corners, pool halls, welfare and employment offices. This operation lasted for approximately 2 weeks. Casual Count was conducted during the day only in selected large central cities. Only persons who appeared to be at least 15 years of age were asked if they had been previously enumerated. Casual Count was actually a coverage-improvement operation. It was not specifically an operation to count homeless persons living in the streets. Persons were excluded if they said they had a usual home outside the city because it was not cost effective to check through individual questionnaires in another city to try to find the person.

PROCESSING PROCEDURES

Respondents returned many census questionnaires by mail to 1 of over 344 census district offices or to one of six processing offices. In these offices, the questionnaires were "checked in" and edited for completeness and consistency of the responses. After this initial processing had been performed, all questionnaires were sent to the processing offices.

In the processing offices, the household questionnaires were microfilmed and processed by the Film Optical Sensing Device for Input to Computers (FOSDIC). For most items on the questionnaire, the information supplied

by the respondent was indicated by filling circles in pre-designated positions. FOSDIC electronically "read" these filled circles from the microfilm copy of the questionnaire and transferred the information to computer tape. The computer tape did not include individual names, addresses, or handwritten responses.

The data processing was performed in several stages. All questionnaires were microfilmed, "read" by FOSDIC, and transferred to computer disk. Selected written entries in the race question on both the short and long forms were keyed from the microfilm and coded using the data base developed from the 1980 census and subsequent content and operational tests. Keying of other written entries on the long forms occurred in the seven processing offices.

The information (for example, income dollar amounts or homeowner shelter costs) on these keyed files was merged with the FOSDIC data or processed further through one of three automated coding programs. The codes for industry, occupation, place-of-birth, migration, place-of-work, ancestry, language, relationship, race, and Hispanic origin were merged with the FOSDIC data for editing, weighting, and tabulating operations at Census Bureau headquarters. All responses to the questions on Individual Census Reports (ICR's), Military Census Reports (MCR's), and Shipboard Census Reports (SCR's) were keyed, not processed by microfilm or FOSDIC.

APPENDIX E.

Facsimiles of Respondent Instructions and Questionnaire Pages

Your Guide for the

1990 U.S. Census Form

This guide gives helpful information on filling out your census form. If you need more help, call the local U.S. census office. **The telephone number is on the cover of the questionnaire.** After you have filled out your form, please return it in the **envelope** we have provided.

On the inside	Page
How to fill out your census form	2
Example	2
Your answers are confidential	2
Instructions for the census questions	3-11
What the census is about	12
Why the census asks certain questions	12

CENSUS '90



U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

D-4

How to Fill Out Your Census Form

Please use a black lead pencil only. Black lead pencil is better to use than ballpoint or other pens. Most questions ask you to fill in the circle, or to print the information. See **Example** below.

Make sure you print answers for everyone in this household. If someone in the household, such as a roomer or boarder, does not want to give you all the information for the form, print at least the person's name and answer questions 2 and 3. A census taker will call to get the other information directly from the person.

There may be a question you cannot answer exactly. For example, you might not know the age of an elderly person or the price for which your house would sell. Ask someone else in your household; if no one knows, give your best estimate.

Instructions for individual questions begin on page 3 of this guide. They will help you to understand the questions and answer them correctly.

If you have a question about filling out the census form or need assistance, call the local U.S. census office. **The telephone number is given on the cover of the questionnaire.**

If you do not mail back your census form, a census taker will be sent out to assist you. But it saves time and your taxpayer dollars if you fill out the form yourself and mail it back.

Example

a. Age	b. Year of birth	a. Age	b. Year of birth
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Your Answers Are Confidential

The law authorizing the census (Title 13, U.S. Code) also provides that your answers are confidential. No one except census workers may see your completed form and they can be fined and/or imprisoned for any disclosure of your answers. Only after 72 years can your individual census form become available to other government agencies (whether federal, state, county, or local). Until then, no other person or business can see your individual report.

The same law that protects the confidentiality of your answers requires that you provide the information asked in this census to the best of your knowledge.

Information collected from the decennial census is used for a variety of statistical purposes. Census information is used to find out where funding is most needed for schools, health centers, highways, and other services. Census results are used by members of public and private groups—including community organizations—and by businesses and industries, as well as by agencies at all levels of government.

Instructions for Questions 1a through 7

- List everyone who lives at this address in question 1a. If you are not sure if you should list a person, see the rules on page 1 of the census form. If you are still not sure, answer as best you can and fill in "Yes" for question H1a or H1b, as appropriate.
If there are more than seven people in your household, please list all the persons in question 1a, complete the form for seven people, and mail it back in the enclosed envelope. A census taker will call to obtain the information for the additional persons.
- If everyone listed in question 1a usually lives at another address(es), print the address(es) in 1b.
- Fill one circle to show how each person is related to the person in column 1.
If **Other relative** of the person in column 1, print the exact relationship such as son-in-law, daughter-in-law, grandparent, nephew, niece, mother-in-law, father-in-law, cousin, and so on.
If the **Stepson/stepdaughter** of the person in column 1 also has been legally adopted by the person in column 1, mark **Stepson/stepdaughter** but do not mark **Natural-born or adopted son/daughter**. In other words, **Stepson/stepdaughter** takes precedence over **Adopted son/daughter**.
- Fill ONE circle for the race each person considers himself/herself to be.
If you fill the **Indian (Amer.)** circle, print the name of the tribe or tribes in which the person is enrolled. If the person is not enrolled in a tribe, print the name of the principal tribe(s).
If you fill the **Other API** circle (under **Asian or Pacific Islander (API)**), only print the name of the group to which the person belongs. For example, the **Other API** category includes persons who identify as Burmese, Fijian, Hmong, Indonesian, Laotian, Bangladeshi, Pakistani, Tongan, Thai, Cambodian, Sri Lankan, and so on.
If you fill the **Other race** circle, be sure to print the name of the race.
If the person considers himself/herself to be **White, Black or Negro, Eskimo or Aleut**, fill one circle only. Please do not print the race in the boxes.
The **Black or Negro** category also includes persons who identify as African-American, Afro-American, Haitian, Jamaican, West Indian, Nigerian, and so on.
All persons, regardless of citizenship status, should answer this question.
- Print age at last birthday in the space provided (print "00" for babies less than 1 year old). Fill in the matching circle below each box. Also, print year of birth in the space provided. Then fill in the matching circle below each box. For an illustration of how to complete question 5, see the **Example** on page 2 of this guide.
- If the person's only marriage was annulled, mark **Never married**.
- A person is of Spanish/Hispanic origin if the person's origin (ancestry) is Mexican, Mexican-Am., Chicano, Puerto Rican, Cuban, Argentinean, Colombian, Costa Rican, Dominican, Ecuadoran, Guatemalan, Honduran, Nicaraguan, Peruvian, Salvadoran, from other Spanish-speaking countries of the Caribbean or Central or South America, or from Spain.
If you fill the **Yes, other Spanish/Hispanic** circle, print one group.
A person who is of Spanish/Hispanic origin should answer this question by filling the **No (not Spanish/Hispanic)** circle. Note that the term "**Mexican-Am.**" refers only to persons of Mexican origin or ancestry.
All persons, regardless of citizenship status, should answer this question.

Instructions for Question H1a through H1b

- Refer to the list of persons you entered in question 1a on page 1. If you left anyone out of your list because you were not sure if the person(s) should be listed, answer question H1a as **Yes**. Then enter the name(s) and reason(s) why you did not list the person(s) on the lines provided. Otherwise, answer question H1a as **No**.
- If you included anyone on your list even though you were not sure that you should list the person(s), answer question H1b as **Yes**. Then enter the name(s) and reason(s) why you listed the person(s) on the lines provided. Otherwise, answer question H1b as **No**.

Instructions for Questions H2 through H7b

H2. Fill only one circle.

Count all occupied and vacant apartments in the house or building. Do not count stores or office space.

Detached means there is open space on all sides, or the house is joined only to a shed or garage. *Attached* means that the house is joined to another house or building by at least one wall that goes from ground to roof. An example of **A one-family house attached to one or more houses** is a house in a row of houses attached to one another.

A mobile home or trailer that has had one or more rooms added or built onto it should be counted as a *one-family detached house*; a porch or shed is not considered a room.

H3. Count only whole rooms in your house, apartment, or mobile home used for living purposes, such as living rooms, dining rooms, kitchens, bedrooms, finished recreation rooms, family rooms, etc. Do not count bathrooms, kitchenettes, strip or pullman kitchens, utility rooms, foyers, halls, half-rooms, porches, balconies, unfinished attics, unfinished basements, or other unfinished space used for storage.

H4. Housing is owned if the owner or co-owner lives in it. Mark **Owned by you or someone in this household with a mortgage or loan** if the house, apartment, or mobile home is mortgaged or there is a contract to purchase. Mark **Owned by you or someone in this household free and clear (without a mortgage)** if there is no mortgage or other debt. If the house, apartment, or mobile home is owned but the land is rented, mark this question to show the status of the house, apartment, or mobile home.

Mark Rented for cash rent if any money rent is paid, even if the rent is paid by persons who are not members of your household, or by a federal, state, or local government agency.

Mark Occupied without payment of cash rent if the unit is not owned or being bought by the occupants and if money rent is not paid or contracted. The unit may be owned by friends or relatives who live elsewhere and who allow occupancy without charge. A house or apartment may be provided as part of wages or salary. Examples are: caretaker's or janitor's house or apartment; parsonages; tenant farmer or sharecropper houses for which the occupants do not pay cash rent; or military housing.

H5a. Answer H5a and H5b if you live in a one-family house or a mobile home; include only land that you own or rent.

- b. A business is easily recognized from the outside; for example, a grocery store or barber shop. A medical office is a doctor's or dentist's office regularly visited by patients.

H6. If this is a house, include the value of the house, the land it is on, and any other structures on the same property. If the house is owned but the land is rented, estimate the combined value of the house and the land. If this is a condominium unit, estimate the value for your house or apartment including your share of the common elements. If this is a mobile home, include the value of the mobile home and the value of the land. If you rent the land, estimate the value of the rented land and add it to the value of the mobile home.

H7a. Report the rent agreed to or contracted for, even if the rent for your house, apartment, or mobile home is unpaid or paid by someone else.

If rent is paid:	Multiply rent by:	If rent is paid:	Divide rent by:
By the day 30		4 times a year 3	
By the week 4		2 times a year 6	
Every other week 2		Once a year 12	

- b. Answer **Yes** if meals are included in the monthly rent payment, or you must contract for meals or a meal plan in order to live in this building.

Instructions for Questions H8 through H19b

H8. The person listed in column 1 refers to the person listed in the first column on page 2. This person should be the household member (or one of the members) in whose name the house, apartment, or mobile home is owned, being bought, or rented. If there is no such person, any adult household member can be the person in column 1. Mark when this person last moved into this house, apartment, or mobile home.

H9. Include all rooms intended to be used as bedrooms in this house, apartment, or mobile home, even if they are currently being used for other purposes.

H10. Mark **Yes**, have all three facilities if you have all the facilities mentioned; all facilities must be in your house, apartment, or mobile home, but not necessarily in the same room. Consider that you have hot water even if you have it only part of the time. Mark **No** if any of the three facilities is not present.

H11. The kitchen sink, stove, and refrigerator must be located in the building but do not have to be in the same room. Portable cooking equipment is not considered as a range or cookstove.

H12. Answer **Yes** only if the telephone is located in your house, apartment, or mobile home.

H13. Count company cars (including police cars and taxicabs) and company trucks of one-ton capacity or less that are regularly kept at home and used by household members for nonbusiness purposes. Do not count cars or trucks permanently out of working order.

H14. Fill the circle for the fuel used most to heat your house, apartment, or mobile home. In buildings containing more than one apartment you may obtain this information from the owner, manager, or janitor.

Solar energy is provided by a system that collects, stores, and distributes heat from the sun. **Other fuel** includes any fuel not separately listed; for example, purchased steam, fuel briquettes, waste material, etc.

H15. If a well provides water for five or more houses, apartments, or mobile homes, mark **A public system**. If a well provides water for four or fewer houses, apartments, or mobile homes, fill one of the circles for **Individual well**.

Drilled wells, or small diameter wells, are usually less than 1½ feet in diameter. **Dug wells** are generally hand dug and are larger than 1½ feet wide.

H16. A public sewer may be operated by a government body or private organization. A **septic tank** or **cesspool** is an underground tank or pit used for disposal of sewage.

H17. Fill the circle corresponding to the period in which the original construction was completed, not the time of any later remodeling, additions, or conversions. In buildings containing more than one apartment, the owner, manager, or janitor may be of help in determining when the building was built.

If you live in a houseboat or a trailer or mobile home, fill the circle corresponding to the model year in which it was manufactured.

If you do not know the period when the building was first constructed, fill the circle for **Don't know**.

H18. A **condominium** is a type of ownership in which the apartments, houses, or mobile homes in a building or development are individually owned, but the common areas, such as lobbies, halls, etc., are jointly owned. Cooperative occupants should mark **No**.

H19a. Answer H19a and H19b if you live in a one-family house or mobile home.

- b. This property is the acreage on which the house is located; it includes adjoining land you rent for your use. Report sales made in 1989 from this property by you or previous occupants.

Instructions for Questions H20 through H26

H20. If your house or apartment is rented, enter the costs for utilities and fuels **only if you pay for them in addition to the rent entered in H7a.**

If you live in a condominium, enter the costs for utilities and fuels **only if you pay for them in addition to your condominium fee.**

If your fuel and utility costs are already included in your rent or condominium fee, fill the **Included in rent or in condominium fee** circle. Do not enter any dollar amounts.

The amounts to be reported should be the total amount for the past 12 months. Estimate as closely as possible when exact costs are not known. If you have lived in this house or apartment less than 1 year, estimate the yearly cost.

Report amounts even if your bills are unpaid or paid by someone else. If the bills include utilities or fuel used also by another apartment or a business establishment, estimate the amounts for your own house or apartment. If gas and electricity are billed together, enter the combined amount on the electricity line and bracket [] the two utilities.

H21. Report taxes for all taxing jurisdictions (city or town, county, state, school district, etc.) even if they are included in your mortgage payment, not yet paid or paid by someone else, or are delinquent. Do not include taxes past due from previous years.

H22. When premiums are paid on other than a yearly basis, convert to a yearly basis. Enter the yearly amount even if no payment was made during the past 12 months.

H23a. The word *mortgage* is used as a general term to indicate all types of loans that are secured by real estate.

b. Enter a monthly amount even if it is unpaid or paid by someone else. If the amount is paid on some other periodic basis, see the instructions for H7a to change it to a monthly amount.

Include payments on first mortgages and contracts to purchase only. Payments for second or junior mortgages and home equity loans should be reported in H24b.

H24a. A second or junior mortgage or home equity loan is secured by real estate.

b. Enter a monthly amount even if it is unpaid or paid by someone else. If the amount is paid on some other periodic basis, see instructions for H7a and change it to a monthly amount. Include payments on all second or junior mortgages or home equity loans.

H25. A *condominium fee* is normally assessed by the condominium owners' association for the purpose of improving and maintaining the common areas. Enter a monthly amount even if it is unpaid or paid by someone else. If the amount is paid on some other periodic basis, see the instructions for H7a on how to change it to a monthly amount.

H26. Report amount even if your bills are unpaid or paid by someone else. Include payments for personal property taxes, land or site rent, registration fees and license fees. Do not include real estate taxes already reported in H21. The amount to be reported should be the total amount for an entire 12-month billing period even if made in two or more installments. Estimate as closely as possible when exact costs are not known.

Instructions for Question 8

8. For persons born in the United States:

Print the name of the State in which this person was born. If the person was born in Washington, D.C., print District of Columbia. If the person was born in a U.S. territory or commonwealth, print Puerto Rico, U.S. Virgin Islands, Guam, American Samoa, or Northern Marianas.

For persons born outside the United States:

Print the name of the foreign country or area where the person was born. Use current boundaries, not boundaries at the time of the person's birth. Specify whether Northern Ireland or the Republic of Ireland (Eire); East or West Germany; North or South Korea; Ireland, Scotland, or Wales (not Great Britain or United Kingdom). Specify the particular country or island in the Caribbean (not, for example, West Indies).

Instructions for Questions 9 through 13

9. A person should fill the **Yes, U.S. citizen by naturalization** circle only if he/she has completed the naturalization process and is now a United States citizen. If the person was born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas, he/she should fill the **Yes, born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas** circle. If the person was born outside the United States (or at sea) and has at least one American parent, he/she should fill the **Yes, born abroad of American parent or parents** circle.

10. If the person has entered the United States (that is, the 50 states and the District of Columbia) more than once, fill the circle for the latest year he/she came to stay.

11. Do not include enrollment in a trade or business school, company training, or tutoring unless the course would be accepted for credit at a regular elementary school, high school, or college.

A *public school* is any school or college that is controlled and supported primarily by a local, county, State, or Federal Government. Schools are private if supported and controlled primarily by religious organizations or other private groups.

12. Mark the category for the highest grade or level of schooling the person has **successfully completed** or the **highest degree** the person received. If the person is enrolled in school, mark the category containing the highest grade completed (the grade previous to the grade in which enrolled). Schooling completed in foreign or ungraded schools should be reported as the equivalent level of schooling in the regular American school system.

Persons who completed high school by passing an equivalency test, such as the General Educational Development (GED) examination, and did not attend college, should fill the circle for high school graduate.

Do not include vocational certificates or diplomas from vocational, trade, or business schools or colleges unless they were college level associate degrees or higher.

Some examples of *professional school degrees* include medicine, dentistry, chiropractic, optometry, osteopathic medicine, pharmacy, podiatry, veterinary medicine, law, and theology. Do not include barber school, cosmetology, or other training for a specific trade.

Do not include honorary degrees awarded by colleges and universities to individuals for their accomplishments. Include only "earned" degrees.

13. Print the ancestry group. Ancestry refers to the person's ethnic origin or descent, "roots," or heritage. Ancestry also may refer to the country of birth of the person or the person's parents or ancestors before their arrival in the United States. All persons, regardless of citizenship status, should answer this question.

Persons who have more than one origin and cannot identify with a single ancestry group may report two ancestry groups (for example, German-Irish).

Be specific. For example, print whether West Indian, Asian Indian, or American Indian. West Indian includes persons whose ancestors came from Jamaica, Trinidad, Haiti, etc. Distinguish Cape Verdean from Portuguese; French Canadian from Canadian; and Dominican Republic from Dominica Island.

A religious group should not be reported as a person's ancestry.

Instructions for Questions 14a through 19

- 14a.** Mark **Yes** if this person lived in this same house or apartment on April 1, 1985, even if he/she moved away and came back since then. Mark **No** if this person lived in the same building but in a different apartment (or in the same mobile home or trailer but on a different lot or trailer site).
- b.** If this person lived in a different house or apartment on April 1, 1985, give the location of this person's usual home at that time.

Part (1)

If the person lived in the United States on April 1, 1985, print the name of the State (or District of Columbia) where he or she lived. Continue with parts (2) through (4).

If the person lived in a U.S. territory or commonwealth, print the name of the territory or commonwealth, such as Puerto Rico, U.S. Virgin Islands, Guam, American Samoa, or Northern Marianas. Then go to question 15a.

If the person lived outside the United States, print the name of the foreign country or area where he or she lived. Specify whether Northern Ireland or the Republic of Ireland (Ire); East or West Germany; North or South Korea; England, Scotland or Wales (not Great Britain or United Kingdom). Specify the particular country or island in the Caribbean (not, for example, West Indies). Then go to question 15a.

Part (2)

If the person lived in Louisiana, print the parish name. If the person lived in Alaska, print the borough name. If the person lived in New York city and the county name is not known, print the borough name. If the person lived in an independent city (not in any county) or in Washington, D.C., leave blank and enter the city name in part (3).

Part (3)

If the person lived in New England, print the name of the town rather than the village name, unless the name of the town is not known. If the person lived outside the limits or boundaries of any city or town, print the name of the post office or the nearest town and mark **No**, **lived outside the city/town limits** in part (4).

Part (4)

Mark **Yes** if the location is now inside the city/town limits even if it was not inside the limits on April 1, 1985; that is, if the area was annexed by the city/town since that time.

- 15.** Mark **Yes** if the person sometimes or always speaks a language other than English at home.

Do not mark **Yes** for a language spoken only at school or if speaking is limited to a few expressions or slang.

Print the name of the language spoken at home. If this person speaks more than one non-English language and cannot determine which is spoken more often, report the first language the person learned to speak.

- 17a.** For a person with service in the National Guard or a military reserve unit, fill one of the two **Yes, active duty** circles if and only if the person has ever been called up for active duty other than training; otherwise, mark **Yes, service in Reserves or National Guard only**. For a person whose only service was as a civilian employee or volunteer for the Red Cross, USO, Public Health Service, or War or Defense Department, mark **No**. Count **World War II Merchant Marine Seaman** service as active duty; do not count other Merchant Marine service as active duty.
- 18.** Mark **Yes** to part (a) if a health condition substantially limits this person in his or her choice of occupation or if the condition limits the amount of work that can be accomplished in a given period of time. Mark **Yes** to part (b) if the health condition prevents this person from holding any significant employment.
- 19.** Consider a person to have difficulty with these activities if any of the following situations apply: (1) it takes extra time or extra effort for the person to perform one or more of the activities, (2) there are times when the person cannot perform one or more of the activities, or (3) the person is completely unable to perform one or more of the activities.

Instructions for Questions 20 through 23b

- 20.** Count all children born alive, including any who have died (even shortly after birth) or who no longer live with you. Do not include miscarriages or stillborn children or any adopted, foster, or stepchildren.

21a. Count as work — Mark **Yes**:

- Work for someone else for wages, salary, piece rate, commission, tips, or payments "in kind" (for example, food, lodging received as payment for work performed).
- Work in own business, professional practice, or farm.
- Any work in a family business or farm, paid or not.
- Any part-time work including babysitting, paper routes, etc.
- Active duty in Armed Forces.

Do not count as work — Mark **No**:

- Housework or yard work at home.
- Unpaid volunteer work.
- School work.
- Work done as a resident of an institution.

- 22a.** Include the street type (for example, St., Road, Ave.) and the street direction (if a direction such as "North" is part of the address). For example, print 1239 N. Main St. or 1239 Main St., N.W. not just 1239 Main.

If the only known address is a post office box, give a description of the work location. For example, print the name of the building or shopping center where the person works, the nearest intersection, the nearest street where the workplace is located, etc. DO NOT GIVE A POST OFFICE BOX NUMBER.

If the person worked at a military installation or military base that has no street address, report the name of the military installation or base.

If the person worked at several locations, but reported to the same location each day to begin work, print the address of the location where he or she reported. If the person did not report to the same location each day to begin work, print the address of the location where he or she worked most last week.

If the person's employer operates in more than one location (such as a grocery store chain or public school system), print the exact address of the location or branch where the person worked. If the exact address of a school is not known, print the name of the school.

If the person worked on a college or university campus and the exact address of the workplace is not known, print the name of the building where he or she worked.

- d.** If the person worked in New York city and the county is not known, print the name of the borough where the person worked.
- If the person worked in Louisiana, print the name of the parish where the person worked.
- If the person worked in Alaska, print the name of the borough where the person worked.
- e.** If the person worked in a foreign country or Puerto Rico, Guam, etc., print the name of the country in 22e and leave the other parts of question 22 blank.
- 23a.** If the person usually used more than one type of transportation to get to work (for example, rode the bus and transferred to the subway), fill the circle of the one method of transportation that he/she used for most of the distance during the trip.
- b.** If the person was driven to work by someone who then drove back home or to a nonwork destination, fill the circle for **Drove alone**.

DO NOT include persons who rode to school or some other nonwork destination in the count of persons who rode in the vehicle.

Instructions for Questions 24a through 30

- 24a.** Give the time of day the person usually *left home to go to work*. DO NOT give the time that the person usually began his or her work.
If the person usually left home to go to work sometime *between 12:00 o'clock midnight and 12:00 o'clock noon*, fill the **a.m.** circle.
If the person usually left home to go to work sometime *between 12:00 o'clock noon and 12:00 o'clock midnight*, fill the **p.m.** circle.
- b.** Travel time is from door to door. Include time taken waiting for public transportation or picking up passengers in a carpool.
- 25.** If the person works only during certain seasons or on a day-by-day basis when work is available, mark **No**.
- 26a.** Mark **Yes** if the person tried to get a job or to start a business or professional practice at any time in the last 4 weeks; for example, registered at an employment office, went to a job interview, placed or answered ads, or did anything toward starting a business or professional practice.
- b.** Mark **No**, **already has a job** if the person was on layoff or was expecting to report to a job within 30 days.
Mark **No**, **temporarily ill** if the person expects to be able to work within 30 days.
Mark **No**, **other reasons** if the person could not have taken a job because he or she was going to school, taking care of children, etc.
- 27.** Look at the instructions for question 21a to see what to count as work. Mark **Never worked** if the person: (1) never worked at any kind of job or business, either full or part time, (2) never did any work, with or without pay, in a family business or farm, and (3) never served in the Armed Forces.
- 28a.** If the person worked for a company, business, or government agency, print the name of the company, not the name of the person's supervisor. If the person worked for an individual or a business that had no company name, print the name of the individual worked for. If the person worked in his/her own business, print "self-employed."
- b.** Print two or more words to tell what the business, industry, or individual employer named in 28a did. If there is more than one activity, describe only the major activity at the place where the person worked. Enter what is made, what is sold, or what service is given.

Some examples of what to enter:

Enter a description like the following –

Metal furniture manufacturing
Retail grocery store
Petroleum refining
Cattle ranch

Do not enter –
Furniture company
Grocery store
Oil company
Ranch

- 29.** Print two or more words to describe the kind of work the person did. If the person was a trainee, apprentice, or helper, include that in the description. Some examples of what to enter:

Enter a description like the following –

Production clerk
Carpenter's helper
Auto engine mechanic
Registered nurse

Do not enter –
Clerk
Helper
Mechanic
Nurse

- 30.** Mark **Employee of a PRIVATE NOT-FOR-PROFIT . . . organization** if the person worked for a cooperative, credit union, mutual insurance company, or similar organization.

Employees of foreign governments, the United Nations, and other international organizations should mark **PRIVATE NOT-FOR-PROFIT . . . organization**.

For persons who worked at a public school, college or university, mark the appropriate *government* category; for example, mark **State GOVERNMENT employee** for a state university, or mark **Local GOVERNMENT employee** for a county-run community college or a city-run public school.

Instructions for Questions 31a through 32h

- 31a.** Look at the instructions for question 21a to see what to count as work.
- b.** Count every week in which the person did any work at all, even for an hour.
- 32.** Fill the **Yes** or **No** circle for each part and enter the amount received during 1989.
- If income from any source was received jointly by household members, report, if possible, the appropriate share for each person; otherwise, report the whole amount for only one person and fill the **No** circle for the other person.
- a.** Include wages and salaries from all jobs before deductions. Be sure to include any tips, commissions, or bonuses. Owners of incorporated businesses should enter their salary here. Military personnel should include base pay plus cash housing and/or subsistence allowance, flight pay, uniform allotments, reenlistment bonuses, etc.
- b.** Include **NONFARM** profit (or loss) from self-employment in sole proprietorships and partnerships. Exclude profit (or loss) of incorporated businesses you own.
- c.** Include **FARM** profit (or loss) from self-employment in sole proprietorships and partnerships. Exclude profit (or loss) of incorporated farm businesses you own. Also exclude amounts from land rented for cash but include amounts from land rented for shares.
- d.** Include interest received or credited to checking and savings accounts, money market funds, certificates of deposit (CDs), IRAs, KEOGHs, and government bonds.
Include dividends received, credited, or reinvested from ownership of stocks or mutual funds.
Include profit (or loss) from royalties and the rental of land, buildings or real estate, or from roomers or boarders. Income received by self-employed persons whose primary source of income is from renting property or from royalties should be included in questions 32b or 32c above. Include regular payments from an estate or trust fund.
- e.** Include Social Security (and/or Railroad Retirement) payments to retired persons, to dependents of deceased insured workers, and to disabled workers before Medicare deductions.
- f.** Include Supplemental Security Income received by aged, blind, or disabled persons, Aid to Families with Dependent Children, or income from other government programs such as general or emergency assistance. Do not include assistance received from private charities. Exclude assistance to pay for heating (cooling) costs.
- g.** Include retirement, disability, or survivor benefits received from companies and unions; Federal, State, and local governments, and the U.S. military. Include regular income from annuities and IRA or KEOGH retirement plans.
- h.** Include Veterans' (VA) disability compensation and educational assistance payments (VEAP), unemployment compensation, child support or alimony, and all other regular payments such as Armed Forces transfer payments; assistance from private charities; regular contributions from persons not living in the household, etc.

Do not include the following as income in any item:

- Refunds or rebates of any kind
- Withdrawals from savings of any kind
- Capital gains or losses from the sale of homes, shares of stock, etc.
- Inheritances or insurance settlements
- Any type of loan
- Pay in-kind such as food, free rent, etc.

What the Census Is About – Some Questions and Answers

Why are we taking a census?

The most important reason for taking a decennial census is to determine how many representatives each state will have in Congress.

What does the Census Bureau do with the information you provide?

The individual information collected in the census is grouped together into statistical totals. Information such as the number of persons in a given area, their ages, educational background, the characteristics of their housing, etc., enable government, business, and industry to plan more effectively.

How long have we been taking the census?

The first census was taken in 1790 in accordance with the requirement in the first article of the constitution. A census has been taken every 10 years since. The 1990 Decennial Census marks the 200th anniversary of the census.

How are you being counted?

Census forms are delivered to all households a few days before census day. Households are requested to fill out the form and mail it back to the census office.

Why the Census Asks Certain Questions

Here are a few reasons for asking some of the questions.

It is as important to get information about people and their houses as it is to count them.

Name?

Names help make sure that everyone in a household is counted, but that no one is counted twice.

Value or rent?

Government and planning agencies use answers to these questions in combination with other information to develop housing programs to meet the needs of people at different economic levels.

Complete plumbing?

This question gives information on the quality of housing. The data are used with other statistics to show how the "level of living" compares in various areas and how it has changed over time.

Place of birth?

This question provides information used to study long-term trends as to where people move and to study migration patterns and differences in growth patterns.

Job?

Answers to the questions about the jobs people hold provide information on the extent and types of employment in different areas of the country. From this information, training programs can be developed and the need for new industries can be determined.

Income?

Income, more than anything else, determines how families or persons live. Income information makes it possible to compare the economic levels of different areas.

OFFICIAL 1990 U.S. CENSUS FORM



Thank you for taking time to complete and return this census questionnaire. It's important to you, your community, and the Nation.

The law requires answers but guarantees privacy.

By law (Title 13, U.S. Code), you're required to answer the census questions to the best of your knowledge. However, the same law guarantees that your census form remains confidential. For 72 years—or until the year 2062—only Census Bureau employees can see your form. No one else—no other government body, no police department, no court system or welfare agency—is permitted to see this confidential information under any circumstances.

How to get started—and get help.

Start by listing on the next page the names of all the people who live in your home. Please answer all questions with a black lead pencil. You'll find detailed instructions for answering the census in the enclosed guide. If you need additional help, call the toll-free telephone number to the left, near your address.

Please answer and return your form promptly.

Complete your form and return it by April 1, 1990 in the postage-paid envelope provided. Avoid the inconvenience of having a census taker visit your home.

Again, thank you for answering the 1990 Census.
Remember: Return the completed form by April 1, 1990.

Para personas de habla hispana –

(For Spanish-speaking persons)

Si usted desea un cuestionario del censo en español, llame sin cargo alguno al siguiente número: **1-800-CUENTAN**
(o sea 1-800-283-6826)

U.S. Department of Commerce
BUREAU OF THE CENSUS

FORM D-2

OMB No. 0607-0628
Approval Expires 07/31/91

The 1990 census must count every person at his or her "usual residence." This means the place where the person lives and sleeps most of the time.

- 1a. List on the numbered lines below the name of each person living here on Sunday, April 1, including all persons staying here who have no other home. If EVERYONE at this address is staying here temporarily and usually lives somewhere else, follow the instructions given in question 1b below.**

Include

- Everyone who usually lives here such as family members, housemates and roommates, foster children, roomers, boarders, and live-in employees
- Persons who are temporarily away on a business trip, on vacation, or in a general hospital
- College students who stay here while attending college
- Persons in the Armed Forces who live here
- Newborn babies still in the hospital
- Children in boarding schools below the college level
- Persons who stay here most of the week while working even if they have a home somewhere else
- Persons with no other home who are staying here on April 1

Do NOT include

- Persons who usually live somewhere else
- Persons who are away in an institution such as a prison, mental hospital, or a nursing home
- College students who live somewhere else while attending college
- Persons in the Armed Forces who live somewhere else
- Persons who stay somewhere else most of the week while working

Print last name, first name, and middle initial for each person. Begin on line 1 with the household member (or one of the household members) in whose name this house or apartment is owned, being bought, or rented. If there is no such person, start on line 1 with any adult household member.

LAST	FIRST	INITIAL	LAST	FIRST	INITIAL
1			7		
2			8		
3			9		
4			10		
5			11		
6			12		

- 1b. If EVERYONE is staying here only temporarily and usually lives somewhere else, list the name of each person on the numbered lines above, fill this circle ☐ and print their usual address below. DO NOT PRINT THE ADDRESS LISTED ON THE FRONT COVER.**

House number	Street or road/Rural route and box number	Apartment number
City	State	ZIP Code
County or foreign country	Names of nearest intersecting streets or roads	

NOW PLEASE OPEN THE FLAP TO PAGE 2 AND ANSWER ALL QUESTIONS FOR THE FIRST 7 PEOPLE LISTED. USE A BLACK LEAD PENCIL ONLY.

	PERSON 1	PERSON 2
Please fill one column → for each person listed in Question 1a on page 1.	Last name _____ First name _____ Middle initial _____	Last name _____ First name _____ Middle initial _____
2. How is this person related to PERSON 1? Fill ONE circle for each person. If other relative of person in column 1, fill circle and print exact relationship, such as mother-in-law, grandparent, son-in-law, niece, cousin, and so on.	START in this column with the household member (or one of the members) in whose name the home is owned, being bought, or rented. If there is no such person, start in this column with any adult household member. <div style="text-align: center;">■</div>	If a RELATIVE of Person 1: <input type="radio"/> Husband/wife <input type="radio"/> Brother/sister <input type="radio"/> Natural-born or adopted <input type="radio"/> Father/mother <input type="radio"/> son/daughter <input type="radio"/> Grandchild <input type="radio"/> Stepson/stepdaughter <input type="radio"/> Other relative → If NOT RELATED to Person 1: <input type="radio"/> Roomer, boarder, or foster child <input type="radio"/> Unmarried partner <input type="radio"/> Housemate, roommate ■ <input type="radio"/> Other nonrelative
3. Sex Fill ONE circle for each person.	<input type="radio"/> Male <input type="radio"/> Female	<input type="radio"/> Male <input type="radio"/> Female
4. Race Fill ONE circle for the race that the person considers himself/herself to be. If Indian (Amer.), print the name of the enrolled or principal tribe. → If Other Asian or Pacific Islander (API), print one group, for example: Hmong, Fijian, Laotian, Thai, Tongan, Pakistani, Cambodian, and so on. → If Other race, print race. →	<input type="radio"/> White <input type="radio"/> Black or Negro <input type="radio"/> Indian (Amer.) (Print the name of the enrolled or principal tribe.) → <input type="radio"/> Eskimo <input type="radio"/> Aleut Asian or Pacific Islander (API) <input type="radio"/> Chinese <input type="radio"/> Japanese <input type="radio"/> Filipino ■ <input type="radio"/> Asian Indian <input type="radio"/> Hawaiian <input type="radio"/> Samoan <input type="radio"/> Korean <input type="radio"/> Guamanian <input type="radio"/> Vietnamese <input type="radio"/> Other API → <input type="radio"/> Other race (Print race) →	<input type="radio"/> White <input type="radio"/> Black or Negro <input type="radio"/> Indian (Amer.) (Print the name of the enrolled or principal tribe.) → <input type="radio"/> Eskimo <input type="radio"/> Aleut Asian or Pacific Islander (API) <input type="radio"/> Chinese <input type="radio"/> Japanese <input type="radio"/> Filipino ■ <input type="radio"/> Asian Indian <input type="radio"/> Hawaiian <input type="radio"/> Samoan <input type="radio"/> Korean <input type="radio"/> Guamanian <input type="radio"/> Vietnamese <input type="radio"/> Other API → <input type="radio"/> Other race (Print race) →
5. Age and year of birth a. Print each person's age at last birthday. Fill in the matching circle below each box. b. Print each person's year of birth and fill the matching circle below each box.	a. Age <div style="display: flex; justify-content: space-around;"> <div>0 <input type="radio"/> 0 <input type="radio"/> 0 <input type="radio"/> 0 <input type="radio"/> 0 <input type="radio"/></div> <div>1 <input type="radio"/> 1 <input type="radio"/> 1 <input type="radio"/> 1 <input type="radio"/> 1 <input type="radio"/></div> <div>2 <input type="radio"/> 2 <input type="radio"/> 2 <input type="radio"/> 2 <input type="radio"/> 2 <input type="radio"/></div> <div>3 <input type="radio"/> 3 <input type="radio"/> 3 <input type="radio"/> 3 <input type="radio"/> 3 <input type="radio"/></div> <div>4 <input type="radio"/> 4 <input type="radio"/> 4 <input type="radio"/> 4 <input type="radio"/> 4 <input type="radio"/></div> <div>5 <input type="radio"/> 5 <input type="radio"/> 5 <input type="radio"/> 5 <input type="radio"/> 5 <input type="radio"/></div> <div>6 <input type="radio"/> 6 <input type="radio"/> 6 <input type="radio"/> 6 <input type="radio"/> 6 <input type="radio"/></div> <div>7 <input type="radio"/> 7 <input type="radio"/> 7 <input type="radio"/> 7 <input type="radio"/> 7 <input type="radio"/></div> <div>8 <input type="radio"/> 8 <input type="radio"/> 8 <input type="radio"/> 8 <input type="radio"/> 8 <input type="radio"/></div> <div>9 <input type="radio"/> 9 <input type="radio"/> 9 <input type="radio"/> 9 <input type="radio"/> 9 <input type="radio"/></div> </div> b. 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Age <div style="display: flex; justify-content: space-around;"> <div>0 <input type="radio"/> 0 <input type="radio"/> 0 <input type="radio"/> 0 <input type="radio"/> 0 <input type="radio"/></div> <div>1 <input type="radio"/> 1 <input type="radio"/> 1 <input type="radio"/> 1 <input type="radio"/> 1 <input type="radio"/></div> <div>2 <input type="radio"/> 0 <input type="radio"/> 2 <input type="radio"/> 0 <input type="radio"/> 2 <input type="radio"/> 0 <input type="radio"/> 2 <input type="radio"/> 0 <input type="radio"/></div> <div>3 <input type="radio"/> 0 <input type="radio"/> 3 <input type="radio"/> 0 <input type="radio"/> 3 <input type="radio"/> 0 <input type="radio"/> 3 <input type="radio"/> 0 <input type="radio"/></div> <div>4 <input type="radio"/> 0 <input type="radio"/> 4 <input type="radio"/> 0 <input type="radio"/> 4 <input type="radio"/> 0 <input type="radio"/> 4 <input type="radio"/> 0 <input type="radio"/></div> <div>5 <input type="radio"/> 0 <input type="radio"/> 5 <input type="radio"/> 0 <input type="radio"/> 5 <input type="radio"/> 0 <input type="radio"/> 5 <input type="radio"/> 0 <input type="radio"/></div> <div>6 <input type="radio"/> 0 <input type="radio"/> 6 <input type="radio"/> 0 <input type="radio"/> 6 <input type="radio"/> 0 <input type="radio"/> 6 <input type="radio"/> 0 <input type="radio"/></div> <div>7 <input type="radio"/> 0 <input type="radio"/> 7 <input type="radio"/> 0 <input type="radio"/> 7 <input type="radio"/> 0 <input type="radio"/> 7 <input type="radio"/> 0 <input type="radio"/></div> <div>8 <input type="radio"/> 0 <input type="radio"/> 8 <input type="radio"/> 0 <input type="radio"/> 8 <input type="radio"/> 0 <input type="radio"/> 8 <input type="radio"/> 0 <input type="radio"/></div> <div>9 <input type="radio"/> 0 <input type="radio"/> 9 <input type="radio"/> 0 <input type="radio"/> 9 <input type="radio"/> 0 <input type="radio"/> 9 <input type="radio"/> 0 <input type="radio"/></div> </div> b. 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6. Marital status Fill ONE circle for each person.	<input type="radio"/> Now married <input type="radio"/> Separated <input type="radio"/> Widowed <input type="radio"/> Never married <input type="radio"/> Divorced	<input type="radio"/> Now married <input type="radio"/> Separated <input type="radio"/> Widowed <input type="radio"/> Never married <input type="radio"/> Divorced
7. Is this person of Spanish/Hispanic origin? Fill ONE circle for each person. If Yes, other Spanish/Hispanic, print one group. →	<input type="radio"/> No (not Spanish/Hispanic) <input type="radio"/> Yes, Mexican, Mexican-Am., Chicano <input type="radio"/> Yes, Puerto Rican ■ <input type="radio"/> Yes, Cuban <input type="radio"/> Yes, other Spanish/Hispanic (Print one group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.) →	<input type="radio"/> No (not Spanish/Hispanic) <input type="radio"/> Yes, Mexican, Mexican-Am., Chicano <input type="radio"/> Yes, Puerto Rican <input type="radio"/> Yes, Cuban <input type="radio"/> Yes, other Spanish/Hispanic (Print one group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.) →
FOR CENSUS USE →	<input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/>

NOW PLEASE ANSWER QUESTIONS H1a-H26 FOR THIS HOUSEHOLD

PERSON 7	
Last name	First name Middle initial
If a RELATIVE of Person 1: <input type="radio"/> Husband/wife <input type="radio"/> Brother/sister <input type="radio"/> Natural-born or adopted <input type="radio"/> Father/mother <input type="radio"/> son/daughter <input type="radio"/> Grandchild <input type="radio"/> Stepson/stepdaughter <input type="radio"/> Other relative	
If NOT RELATED to Person 1: <input type="radio"/> Roomer, boarder, or lodger child <input type="radio"/> Unmarried partner <input type="radio"/> Housemate, roommate <input type="radio"/> Other nonrelative	
<input type="radio"/> Male <input type="radio"/> Female	
<input type="radio"/> White <input type="radio"/> Black or Negro <input type="radio"/> Indian (Amer.) (Print the name of the enrolled or principal tribe.) <input type="radio"/> Eskimo <input type="radio"/> Aleut Asian or Pacific Islander (API) <input type="radio"/> Chinese <input type="radio"/> Japanese <input type="radio"/> Filipino <input type="radio"/> Asian Indian <input type="radio"/> Hawaiian <input type="radio"/> Samoan <input type="radio"/> Korean <input type="radio"/> Guamanian <input type="radio"/> Vietnamese <input type="radio"/> Other API <input type="radio"/> Other race (Print race)	
a. Age	b. Year of birth
0 0 0 0 0 1 0 1 0 1 2 2 0 2 3 3 0 3 4 4 0 4 5 5 0 5 6 6 0 6 7 7 0 7 8 8 0 8 9 9 0 9	1 8 0 0 0 0 9 0 1 0 1 0 2 0 2 0 3 0 3 0 4 0 4 0 5 0 5 0 6 0 6 0 7 0 7 0 8 0 8 0 9 0 9 0
<input type="radio"/> Now married <input type="radio"/> Separated <input type="radio"/> Widowed <input type="radio"/> Never married <input type="radio"/> Divorced	
<input type="radio"/> No (not Spanish/Hispanic) <input type="radio"/> Yes, Mexican, Mexican-Am., Chicano <input type="radio"/> Yes, Puerto Rican <input type="radio"/> Yes, Cuban <input type="radio"/> Yes, other Spanish/Hispanic (Print one group, for example: Argentinian, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.)	
<input type="radio"/> <input type="radio"/>	

H1a. Did you leave anyone out of your list of persons for Question 1a on page 1 because you were not sure if the person should be listed — for example, someone temporarily away on a business trip or vacation, a newborn baby still in the hospital, or a person who stays here once in a while and has no other home?

☐ Yes, please print the name(s) and reason(s).

b. Did you include anyone in your list of persons for Question 1a on page 1 even though you were not sure that the person should be listed — for example, a visitor who is staying here temporarily or a person who usually lives somewhere else?

☐ Yes, please print the name(s) and reason(s).

H2. Which best describes this building? Include all apartments, flats, etc., even if vacant.

- ☐ A mobile home or trailer
☐ A one-family house detached from any other house
☐ A one-family house attached to one or more houses
☐ A building with 2 apartments
☐ A building with 3 or 4 apartments
☐ A building with 5 to 9 apartments
☐ A building with 10 to 19 apartments
☐ A building with 20 to 49 apartments
☐ A building with 50 or more apartments
☐ Other

H3. How many rooms do you have in this house or apartment?

Do NOT count bathrooms, porches, balconies, foyers, halls, or half-rooms.

- ☐ 1 room ☐ 4 rooms ☐ 7 rooms
☐ 2 rooms ☐ 5 rooms ☐ 8 rooms
☐ 3 rooms ☐ 6 rooms ☐ 9 or more rooms

H4. Is this house or apartment —

- ☐ Owned by you or someone in this household with a mortgage or loan?
☐ Owned by you or someone in this household free and clear (without a mortgage)?
☐ Rented for cash rent?
☐ Occupied without payment of cash rent?

If this is a ONE-FAMILY HOUSE —
 H5a. Is this house on ten or more acres?

☐ Yes ☐ No

b. Is there a business (such as a store or barber shop) or a medical office on this property?

☐ Yes ☐ No

Answer only if you or someone in this household OWNS OR IS BUYING this house or apartment —

H6. What is the value of this property; that is, how much do you think this house and lot or condominium unit would sell for if it were for sale?

- ☐ Less than \$10,000 ☐ \$70,000 to \$74,999
☐ \$10,000 to \$14,999 ☐ \$75,000 to \$79,999
☐ \$15,000 to \$19,999 ☐ \$80,000 to \$89,999
☐ \$20,000 to \$24,999 ☐ \$90,000 to \$99,999
☐ \$25,000 to \$29,999 ☐ \$100,000 to \$124,999
☐ \$30,000 to \$34,999 ☐ \$125,000 to \$149,999
☐ \$35,000 to \$39,999 ☐ \$150,000 to \$174,999
☐ \$40,000 to \$44,999 ☐ \$175,000 to \$199,999
☐ \$45,000 to \$49,999 ☐ \$200,000 to \$249,999
☐ \$50,000 to \$54,999 ☐ \$250,000 to \$299,999
☐ \$55,000 to \$59,999 ☐ \$300,000 to \$399,999
☐ \$60,000 to \$64,999 ☐ \$400,000 to \$499,999
☐ \$65,000 to \$69,999 ☐ \$500,000 or more

Answer only if you PAY RENT for this house or apartment —

H7a. What is the monthly rent?

- ☐ Less than \$80 ☐ \$375 to \$399
☐ \$80 to \$99 ☐ \$400 to \$424
☐ \$100 to \$124 ☐ \$425 to \$449
☐ \$125 to \$149 ☐ \$450 to \$474
☐ \$150 to \$174 ☐ \$475 to \$499
☐ \$175 to \$199 ☐ \$500 to \$524
☐ \$200 to \$224 ☐ \$525 to \$549
☐ \$225 to \$249 ☐ \$550 to \$599
☐ \$250 to \$274 ☐ \$600 to \$649
☐ \$275 to \$299 ☐ \$650 to \$699
☐ \$300 to \$324 ☐ \$700 to \$749
☐ \$325 to \$349 ☐ \$750 to \$999
☐ \$350 to \$374 ☐ \$1,000 or more

b. Does the monthly rent include any meals?

☐ Yes ☐ No

FOR CENSUS USE

A. Total persons	B. Type of unit Occupied Vacant	D. Months vacant	G. DO	ID
0 0 0 0 0 1 0 1 0 1 2 2 0 2 3 3 0 3 4 4 0 4 5 5 0 5 6 6 0 6 7 7 0 7 8 8 0 8 9 9 0 9	<input type="radio"/> First form <input type="radio"/> Regular <input type="radio"/> Con'tn <input type="radio"/> Usual home elsewhere	<input type="radio"/> Less than 1 <input type="radio"/> 6 up to 12 <input type="radio"/> 1 up to 2 <input type="radio"/> 12 up to 24 <input type="radio"/> 2 up to 6 <input type="radio"/> 24 or more	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> 	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>
C1. Vacancy status <input type="radio"/> For rent <input type="radio"/> For seas/ rec/occ <input type="radio"/> For sale only <input type="radio"/> For migrant workers <input type="radio"/> Rented or sold, not occupied <input type="radio"/> Other vacant		E. Complete after <input type="radio"/> LR <input type="radio"/> TC <input type="radio"/> QA <input type="radio"/> JIC 1 <input type="radio"/> P/F <input type="radio"/> RE <input type="radio"/> I/T <input type="radio"/> MV <input type="radio"/> ED <input type="radio"/> EN <input type="radio"/> P0 <input type="radio"/> P3 <input type="radio"/> P6 <input type="radio"/> P1 <input type="radio"/> P4 <input type="radio"/> 1A <input type="radio"/> JIC 2 <input type="radio"/> P2 <input type="radio"/> P5 <input type="radio"/> SM		
C2. Is this unit boarded up? <input type="radio"/> Yes <input type="radio"/> No		F. Cov. <input type="radio"/> 1b <input type="radio"/> 1a <input type="radio"/> 7 <input type="radio"/> H1		

<p>H8. When did the person listed in column 1 on page 2 move into this house or apartment?</p> <p> <input type="radio"/> 1989 or 1990 <input type="radio"/> 1985 to 1988 <input type="radio"/> 1980 to 1984 <input type="radio"/> 1970 to 1979 <input type="radio"/> 1960 to 1969 <input type="radio"/> 1959 or earlier </p>	<p>H14. Which FUEL is used MOST for heating this house or apartment?</p> <p> <input type="radio"/> Gas: from underground pipes serving the neighborhood <input type="radio"/> Gas: bottled, tank, or LP <input type="radio"/> Electricity <input type="radio"/> Fuel oil, kerosene, etc. <input type="radio"/> Coal or coke <input type="radio"/> Wood <input type="radio"/> Solar energy <input type="radio"/> Other fuel <input type="radio"/> No fuel used </p>	<p>H20. What are the yearly costs of utilities and fuels for this house or apartment? If you have lived here less than 1 year, estimate the yearly cost.</p> <p>a. Electricity</p> <p> <input type="text"/> \$ <input type="text"/> .00 Yearly cost — Dollars </p> <p>OR</p> <p> <input type="radio"/> Included in rent or in condominium fee <input type="radio"/> No charge or electricity not used </p>
<p>H9. How many bedrooms do you have; that is, how many bedrooms would you list if this house or apartment were on the market for sale or rent?</p> <p> <input type="radio"/> No bedroom <input type="radio"/> 1 bedroom <input type="radio"/> 2 bedrooms <input type="radio"/> 3 bedrooms <input type="radio"/> 4 bedrooms <input type="radio"/> 5 or more bedrooms </p>	<p>H15. Do you get water from —</p> <p> <input type="radio"/> A public system such as a city water department, or private company? <input type="radio"/> An individual drilled well? <input type="radio"/> An individual dug well? <input type="radio"/> Some other source such as a spring, creek, river, cistern, etc.? </p>	<p>b. Gas</p> <p> <input type="text"/> \$ <input type="text"/> .00 Yearly cost — Dollars </p> <p>OR</p> <p> <input type="radio"/> Included in rent or in condominium fee <input type="radio"/> No charge or gas not used </p>
<p>H10. Do you have COMPLETE plumbing facilities in this house or apartment; that is, 1) hot and cold piped water, 2) a flush toilet, and 3) a bathtub or shower?</p> <p> <input type="radio"/> Yes, have all three facilities <input type="radio"/> No </p>	<p>H16. Is this building connected to a public sewer?</p> <p> <input type="radio"/> Yes, connected to public sewer <input type="radio"/> No, connected to septic tank or cesspool <input type="radio"/> No, use other means </p>	<p>c. Water</p> <p> <input type="text"/> \$ <input type="text"/> .00 Yearly cost — Dollars </p> <p>OR</p> <p> <input type="radio"/> Included in rent or in condominium fee <input type="radio"/> No charge or gas not used </p>
<p>H11. Do you have COMPLETE kitchen facilities; that is, 1) a sink with piped water, 2) a range or cookstove, and 3) a refrigerator?</p> <p> <input type="radio"/> Yes <input type="radio"/> No </p>	<p>H17. About when was this building first built?</p> <p> <input type="radio"/> 1989 or 1990 <input type="radio"/> 1985 to 1988 <input type="radio"/> 1980 to 1984 <input type="radio"/> 1970 to 1979 <input type="radio"/> 1960 to 1969 <input type="radio"/> 1950 to 1959 <input type="radio"/> 1940 to 1949 <input type="radio"/> 1939 or earlier <input type="radio"/> Don't know </p>	<p>d. Oil, coal, kerosene, wood, etc.</p> <p> <input type="text"/> \$ <input type="text"/> .00 Yearly cost — Dollars </p> <p>OR</p> <p> <input type="radio"/> Included in rent or in condominium fee <input type="radio"/> No charge or these fuels not used </p>
<p>H12. Do you have a telephone in this house or apartment?</p> <p> <input type="radio"/> Yes <input type="radio"/> No </p>	<p>H18. Is this house or apartment part of a condominium?</p> <p> <input type="radio"/> Yes <input type="radio"/> No </p> <p><i>If you live in an apartment building, skip to H20.</i></p>	
<p>H13. How many automobiles, vans, and trucks of one-ton capacity or less are kept at home for use by members of your household?</p> <p> <input type="radio"/> None <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> 6 <input type="radio"/> 7 or more </p>	<p>H19a. Is this house on less than 1 acre?</p> <p> <input type="radio"/> Yes — Skip to H20 <input type="radio"/> No </p> <p>b. In 1989, what were the actual sales of all agricultural products from this property?</p> <p> <input type="radio"/> None <input type="radio"/> \$1 to \$999 <input type="radio"/> \$1,000 to \$2,499 <input type="radio"/> \$2,500 to \$4,999 <input type="radio"/> \$5,000 to \$9,999 <input type="radio"/> \$10,000 or more </p>	

INSTRUCTION:

Answer questions H21 to H26, if this is a one-family house, a condominium, or a mobile home that someone in this household OWNS OR IS BUYING; otherwise, go to page 6.

H21. What were the real estate taxes on THIS property last year?

\$.00
Yearly amount — Dollars

OR

☐ None

H22. What was the annual payment for fire, hazard, and flood insurance on THIS property?

\$.00
Yearly amount — Dollars

OR

☐ None

H23a. Do you have a mortgage, deed of trust, contract to purchase, or similar debt on THIS property?

- ☐ Yes, mortgage, deed of trust, or similar debt } Go to H23b
☐ Yes, contract to purchase
☐ No — Skip to H24a

b. How much is your regular monthly mortgage payment on THIS property? Include payment only on first mortgage or contract to purchase.

\$.00
Monthly amount — Dollars

OR

☐ No regular payment required — Skip to H24a

c. Does your regular monthly mortgage payment include payments for real estate taxes on THIS property?

- ☐ Yes, taxes included in payment
☐ No, taxes paid separately or taxes not required

d. Does your regular monthly mortgage payment include payments for fire, hazard, or flood insurance on THIS property?

- ☐ Yes, insurance included in payment
☐ No, insurance paid separately or no insurance

H24a. Do you have a second or junior mortgage or a home equity loan on THIS property?

- ☐ Yes
☐ No — Skip to H25

b. How much is your regular monthly payment on all second or junior mortgages and all home equity loans?

\$.00
Monthly amount — Dollars

OR

☐ No regular payment required

Answer ONLY if this is a CONDOMINIUM —
H25. What is the monthly condominium fee?

\$.00
Monthly amount — Dollars

Answer ONLY if this is a MOBILE HOME —
H26. What was the total cost for personal property taxes, site rent, registration fees, and license fees on this mobile home and its site last year? Exclude real estate taxes.

\$.00
Yearly amount — Dollars

Please turn to page 6. ➔

PERSON 1		14a. Did this person live in this house or apartment 5 years ago (on April 1, 1985)?		18. Does this person have a physical, mental, or other health condition that has lasted for 6 or more months and which —	
Last name _____ First name _____ Middle initial _____		<input type="radio"/> Born after April 1, 1985 — Go to questions for the next person <input type="radio"/> Yes — Skip to 15a <input type="radio"/> No		<input type="radio"/> Yes <input type="radio"/> No a. Limits the kind or amount of work this person can do at a job? <input type="radio"/> Yes <input type="radio"/> No	
8. In what U.S. State or foreign country was this person born? _____ (Name of State or foreign country; or Puerto Rico, Guam, etc.)		b. Where did this person live 5 years ago (on April 1, 1985)?		b. Prevents this person from working at a job? <input type="radio"/> Yes <input type="radio"/> No	
9. Is this person a CITIZEN of the United States? <input type="radio"/> Yes, born in the United States — Skip to 11 <input type="radio"/> Yes, born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas <input type="radio"/> Yes, born abroad of American parent or parents <input type="radio"/> Yes, U.S. citizen by naturalization <input type="radio"/> No, not a citizen of the United States		(1) Name of U.S. State or foreign country _____ (If outside U.S., print answer above and skip to 15a.)		19. Because of a health condition that has lasted for 6 or more months, does this person have any difficulty —	
		(2) Name of county in the U.S. _____		<input type="radio"/> Yes <input type="radio"/> No a. Going outside the home alone, for example, to shop or visit a doctor's office? <input type="radio"/> Yes <input type="radio"/> No	
		(3) Name of city or town in the U.S. _____		b. Taking care of his or her own personal needs, such as bathing, dressing, or getting around inside the home? <input type="radio"/> Yes <input type="radio"/> No	
10. When did this person come to the United States to stay? <input type="radio"/> 1987 to 1990 <input type="radio"/> 1970 to 1974 <input type="radio"/> 1985 or 1986 <input type="radio"/> 1965 to 1969 <input type="radio"/> 1982 to 1984 <input type="radio"/> 1960 to 1964 <input type="radio"/> 1980 or 1981 <input type="radio"/> 1950 to 1959 <input type="radio"/> 1975 to 1979 <input type="radio"/> Before 1950		(4) Did this person live inside the city or town limits? <input type="radio"/> Yes <input type="radio"/> No, lived outside the city/town limits		If this person is a female —	
11. At any time since February 1, 1990, has this person attended regular school or college? Include only nursery school, kindergarten, elementary school, and schooling which leads to a high school diploma or a college degree. <input type="radio"/> No, has not attended since February 1 <input type="radio"/> Yes, public school, public college <input type="radio"/> Yes, private school, private college		15a. Does this person speak a language other than English at home? <input type="radio"/> Yes <input type="radio"/> No — Skip to 16		20. How many babies has she ever had, not counting stillbirths? Do not count her stepchildren or children she has adopted. None 1 2 3 4 5 6 7 8 9 10 11 12 or more <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	
12. How much school has this person COMPLETED? Fill ONE circle for the highest level COMPLETED or degree RECEIVED. If currently enrolled, mark the level of previous grade attended or highest degree received. <input type="radio"/> No school completed <input type="radio"/> Nursery school <input type="radio"/> Kindergarten <input type="radio"/> 1st, 2nd, 3rd, or 4th grade <input type="radio"/> 5th, 6th, 7th, or 8th grade <input type="radio"/> 9th grade <input type="radio"/> 10th grade <input type="radio"/> 11th grade <input type="radio"/> 12th grade, NO DIPLOMA <input type="radio"/> HIGH SCHOOL GRADUATE — high school DIPLOMA or the equivalent (For example: GED) <input type="radio"/> Some college but no degree <input type="radio"/> Associate degree in college — Occupational program <input type="radio"/> Associate degree in college — Academic program <input type="radio"/> Bachelor's degree (For example: BA, AB, BS) <input type="radio"/> Master's degree (For example: MA, MS, MEng, MEd, MSW, MBA) <input type="radio"/> Professional school degree (For example: MD, DDS, DVM, LLB, JD) <input type="radio"/> Doctorate degree (For example: PhD, EdD)		b. What is this language? _____ (For example: Chinese, Italian, Spanish, Vietnamese)		21a. Did this person work at any time LAST WEEK? <input type="radio"/> Yes — Fill this circle if this person worked full time or part time. (Count part-time work such as delivering papers, or helping without pay in a family business or farm. Also count active duty in the Armed Forces.) <input type="radio"/> No — Fill this circle if this person did not work, or did only housework, school work, or volunteer work. — Skip to 25	
		c. How well does this person speak English? <input type="radio"/> Very well <input type="radio"/> Not well <input type="radio"/> Well <input type="radio"/> Not at all		b. How many hours did this person work LAST WEEK (at all jobs)? Subtract any time off; add overtime or extra hours worked. _____ Hours	
		16. When was this person born? <input type="radio"/> Born before April 1, 1975 — Go to 17a <input type="radio"/> Born April 1, 1975 or later — Go to questions for the next person		22. At what location did this person work LAST WEEK? If this person worked at more than one location, print where he or she worked most last week.	
		17a. Has this person ever been on active-duty military service in the Armed Forces of the United States or ever been in the United States military Reserves or the National Guard? If service was in Reserves or National Guard only, see instruction guide. <input type="radio"/> Yes, now on active duty <input type="radio"/> Yes, on active duty in past, but not now <input type="radio"/> Yes, service in Reserves or National Guard only — Skip to 18 <input type="radio"/> No — Skip to 18		a. Address (Number and street) _____ (If the exact address is not known, give a description of the location such as the building name or the nearest street or intersection.)	
		b. Was active-duty military service during — Fill a circle for each period in which this person served. <input type="radio"/> September 1980 or later <input type="radio"/> May 1975 to August 1980 <input type="radio"/> Vietnam era (August 1964—April 1975) <input type="radio"/> February 1955—July 1964 <input type="radio"/> Korean conflict (June 1950—January 1955) <input type="radio"/> World War II (September 1940—July 1947) <input type="radio"/> World War I (April 1917—November 1918) <input type="radio"/> Any other time		b. Name of city, town, or post office _____	
13. What is this person's ancestry or ethnic origin? (See instruction guide for further information.) _____ (For example: German, Italian, Afro-American, Croatian, Cape Verdean, Dominican, Ecuadorian, Haitian, Cajun, French Canadian, Jamaican, Korean, Lebanese, Mexican, Nigerian, Irish, Polish, Slovak, Taiwanese, Thai, Ukrainian, etc.)		c. In total, how many years of active-duty military service has this person had? _____ Years		c. Is the work location inside the limits of that city or town? <input type="radio"/> Yes <input type="radio"/> No, outside the city/town limits	
				d. County _____	
				e. State _____ f. ZIP Code _____	

23a. How did this person usually get to work LAST WEEK? If this person usually used more than one method of transportation during the trip, fill the circle of the one used for most of the distance.

- ☐ Car, truck, or van ☐ Motorcycle
☐ Bus or trolley bus ☐ Bicycle
☐ Streetcar or trolley car ☐ Walked
☐ Subway or elevated ☐ Worked at home
☐ Railroad ☐ Skip to 28
☐ Ferryboat ☐ Other method
☐ Taxicab

If "car, truck, or van" is marked in 23a, go to 23b. Otherwise, skip to 24a.

b. How many people, including this person, usually rode to work in the car, truck, or van LAST WEEK?

- ☐ Drove alone ☐ 5 people
☐ 2 people ☐ 6 people
☐ 3 people ☐ 7 to 9 people
☐ 4 people ☐ 10 or more people

24a. What time did this person usually leave home to go to work LAST WEEK?

- a.m.
 p.m.

b. How many minutes did it usually take this person to get from home to work LAST WEEK?

- Minutes - Skip to 28

25. Was this person TEMPORARILY absent or on layoff from a job or business LAST WEEK?

- ☐ Yes, on layoff
☐ Yes, on vacation, temporary illness, labor dispute, etc.
☐ No

26a. Has this person been looking for work during the last 4 weeks?

- ☐ Yes
☐ No - Skip to 27

b. Could this person have taken a job LAST WEEK if one had been offered?

- ☐ No, already has a job
☐ No, temporarily ill
☐ No, other reasons (in school, etc.)
☐ Yes, could have taken a job

27. When did this person last work, even for a few days?

- ☐ 1990 ☐ 1980 to 1984 ☐ Skip
☐ 1989 ☐ 1979 or earlier ☐ to 32
☐ 1988 ☐ Never worked
☐ 1985 to 1987

28-30. CURRENT OR MOST RECENT JOB

ACTIVITY. Describe clearly this person's chief job activity or business last week. If this person had more than one job, describe the one at which this person worked the most hours. If this person had no job or business last week, give information for his/her last job or business since 1985.

28. Industry or Employer

a. For whom did this person work?

If now on active duty in the Armed Forces, fill this circle ☐ and print the branch of the Armed Forces.

(Name of company, business, or other employer)

b. What kind of business or industry was this?

Describe the activity at location where employed.

(For example: hospital, newspaper publishing, mail order house, auto engine manufacturing, retail bakery)

c. Is this mainly - Fill ONE circle

- ☐ Manufacturing ☐ Other (agriculture, construction, service, government, etc.)
☐ Wholesale trade
☐ Retail trade

29. Occupation

a. What kind of work was this person doing?

(For example: registered nurse, personnel manager, supervisor of order department, gasoline engine assembler, cake icer)

b. What were this person's most important activities or duties?

(For example: patient care, directing hiring policies, supervising order clerks, assembling engines, icing cakes)

30. Was this person - Fill ONE circle

- ☐ Employee of a PRIVATE FOR PROFIT company or business or of an individual, for wages, salary, or commissions
☐ Employee of a PRIVATE NOT-FOR-PROFIT, tax-exempt, or charitable organization
☐ Local GOVERNMENT employee (city, county, etc.)
☐ State GOVERNMENT employee
☐ Federal GOVERNMENT employee
☐ SELF-EMPLOYED in own NOT INCORPORATED business, professional practice, or farm
☐ SELF-EMPLOYED in own INCORPORATED business, professional practice, or farm
☐ Working WITHOUT PAY in family business or farm

31a. Last year (1989), did this person work, even for a few days, at a paid job or in a business or farm?

- ☐ Yes
☐ No - Skip to 32

b. How many weeks did this person work in 1989?

Count paid vacation, paid sick leave, and military service.

Weeks

c. During the weeks WORKED in 1989, how many hours did this person usually work each week?

Hours

32. INCOME IN 1989 -

Fill the "Yes" circle below for each income source received during 1989. Otherwise, fill the "No" circle. If "Yes," enter the total amount received during 1989.

For income received jointly, see instruction guide. If exact amount is not known, please give best estimate. If net income was a loss, write "Loss" above the dollar amount.

a. Wages, salary, commissions, bonuses, or tips from all jobs - Report amount before deductions for taxes, bonds, dues, or other items.

☐ Yes ☐ No \$.00
 Annual amount - Dollars

b. Self-employment income from own nonfarm business, including proprietorship and partnership - Report NET income after business expenses.

☐ Yes ☐ No \$.00
 Annual amount - Dollars

c. Farm self-employment income - Report NET income after operating expenses. Include earnings as a tenant farmer or sharecropper.

☐ Yes ☐ No \$.00
 Annual amount - Dollars

d. Interest, dividends, net rental income or royalty income, or income from estates and trusts - Report even small amounts credited to an account.

☐ Yes ☐ No \$.00
 Annual amount - Dollars

e. Social Security or Railroad Retirement

☐ Yes ☐ No \$.00
 Annual amount - Dollars

f. Supplemental Security Income (SSI), Aid to Families with Dependent Children (AFDC), or other public assistance or public welfare payments.

☐ Yes ☐ No \$.00
 Annual amount - Dollars

g. Retirement, survivor, or disability pensions - Do NOT include Social Security.

☐ Yes ☐ No \$.00
 Annual amount - Dollars

h. Any other sources of income received regularly such as Veterans' (VA) payments, unemployment compensation, child support, or alimony - Do NOT include lump-sum payments such as money from an inheritance or the sale of a home.

☐ Yes ☐ No \$.00
 Annual amount - Dollars

33. What was this person's total income in 1989?

Add entries in questions 32a through 32h; subtract any losses. If total amount was a loss, write "Loss" above amount.

☐ None OR \$.00
 Annual amount - Dollars

Please turn the page and answer questions for Person 2 listed on page 1. If this is the last person listed in question 1a on page 1, go to the back of the form.



APPENDIX F.

Data Products and User Assistance

CONTENTS

Data Products	F-1
Geographic Products	F-3
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The 1990 census data products, being released during 1991-93, are available in a variety of new and traditional media. The Census Bureau has increased the product options available to data users in an effort to meet a variety of requirements and maximize the usefulness of the data. For example, laser discs, called CD-ROM (compact disc—read-only memory), are a new data delivery medium.

The Census Bureau also has expanded services and sources of assistance available to data users. For example, the State Data Center Program has been expanded to include over 1,400 organizations to provide data and services to the public.

This appendix provides a detailed introduction to the 1990 census data products and related materials, such as maps and reference publications. It concludes by describing sources of assistance and other Census Bureau data available to the public.

DATA PRODUCTS

Printed reports and computer tape files traditionally are the most widely used products. The Census Bureau also offers data on microfiche, on CD-ROM laser discs, and through its online service, CENDATA™. These various products are described below. For information about prices and how to order, write or call Customer Services. (See the "Sources of Assistance" section for the address and phone number.)

The data products present statistics about the subjects covered in the 1990 census questionnaires. These subjects are listed in figure 1, page F-7. As the figure shows, there are 100-percent subjects (those covered in questions asked of everyone or about every housing unit) and sample subjects (those covered in questions asked at about one out of every six housing units). Generally, a data product presents either 100-percent data prepared by tabulating the responses to the 100-percent questions from all questionnaires, or sample data prepared by tabulating only the responses to the 100-percent and sample questions from the "long-form" questionnaires. Two report series, 1990 CPH-3 and 1990 CPH-4 (see figure 2, page F-8), present both 100-percent and sample data.

Printed Reports

Printed reports are the most convenient and readily available source of data for most census users. The Census Bureau releases the reports in several series (see figure 2) that are grouped under three broad titles: *1990 Census of Population and Housing* (1990 CPH), *1990 Census of Population* (1990 CP), and *1990 Census of Housing* (1990 CH). There also are reports, not reflected in figure 2, for the outlying areas of the Pacific. The reports are sold by the Superintendent of Documents, U.S. Government Printing Office. (See the "Sources of Assistance" section for the address and phone number.)

In several series, there are separate reports for each State. The geographic coverage of the State reports is listed in figure 2. The United States summaries for these report series contain, for the most part, data for the United States, regions, divisions, States, metropolitan areas (MA's), urbanized areas (UA's), counties, American Indian and Alaska Native areas, places with 10,000 or more persons, and other large substate areas (for example, county subdivisions, such as towns and townships, with 10,000 or more persons in selected States).

Report series that present data for small areas, such as census tracts, contain limited subject-matter detail (for example, counts of people by age ranges—under 5 years, 5 to 9 years, etc.—rather than by single years). Report series that include greater amounts of subject-matter detail include less geographic detail.

Computer Tape Files

The Census Bureau provides more data on tape and other machine-readable products than in printed reports. These products are sold by the Census Bureau's Customer Services. There are several general types of data files released on computer tape (available on both reels and cartridges). They are introduced below, and more information is presented in figures 3 and 4, pages F-11 through F-13.

Public Law 94-171 Data—This data file presents the counts designed and formatted for use in legislative redistricting. These counts also are available on CD-ROM and paper listings. Excerpts are available on CENDATA™. The counts, for areas as small as blocks, census tracts, and voting districts, include totals for population, race groups, persons of Hispanic origin, population 18 years and over, and housing units. (See figure 4.)

Summary Tape Files (STF's)— These computer tape files provide statistics with greater subject-matter detail than printed reports. They also present statistics for some types of areas, such as block groups and blocks, that are not included in the reports. (See figure 3.)

Here are some important features of STF's:

- Each STF presents a particular set of data tables for specific types of geographic areas.
- Each STF has three or more file types (indicated by a letter suffix attached to the STF number) that differ in the geographic levels reported, but contain the same data detail.
- STF's 1 and 2 contain 100-percent data, and STF's 3 and 4 offer sample data.
- STF's 1 and 3 report on smaller areas and offer less data detail than STF's 2 and 4.
- STF's 1 through 4 offer greater data detail than the 1980 STF's 1 through 4.

Subject Summary Tape Files (SSTF's)—These files are the source of the subject reports and provide greater subject-matter detail than the STF's. They present data for the United States, regions, and divisions, and, in some cases, also for States, counties, and large cities. (See figure 4.)

Public Use Microdata Sample (PUMS) Files—These computer tape files (see figure 4) contain data from samples of long-form housing-unit records ("micro-data") for large geographic areas. Each sample housing-unit record includes essentially all the 1990 census data collected about each person in a sample household and the characteristics of the housing unit. Information that could be used to identify an individual or a housing unit is not included in the file.

Microdata files enable users to prepare customized tabulations and cross-tabulations of most items on the census questionnaire. There are two PUMS files:

- A file presenting a 5-percent sample of housing units in which each household record includes codes to let the user know in what area, such as a group of counties, a single county, or a place, the household is located. Each area identified must have a population of at least 100,000 and boundaries that do not cross State lines.
- A file presenting a 1-percent sample of housing units. Its household records include codes associating them with MA's and other large areas, the boundaries of which may cross State lines. (For the 1980 census, there were two files with 1-percent samples. The 1-percent sample showing data for selected urbanized areas and other large areas will not be produced for the 1990 census.)

Other Special Computer Tape Files—Other files include the Census/Equal Employment Opportunity (EEO) Special File and the County-to-County Migration File. (See figure 4.) The Census Bureau may prepare additional special files.

Microfiche

Block statistics are available on microfiche as they were for the 1980 census. The microfiche present, in table format, a subset of the tabulations for census blocks found in STF 1B (see figure 3). In the 1990 census, for the first time, the entire land area of the Nation and its possessions was block-numbered. This increased the number of blocks for which the Census Bureau provides data from 2.5 million in 1980 to 7 million for 1990. The cost and storage of block data of this magnitude would be prohibitive if the data were published in printed reports.

STF's 1A and 3A are available on microfiche, as well. As noted in figure 3, they provide data for a variety of geographic areas. Also, all printed reports are offered on microfiche from Customer Services soon after they are published.

Compact Disc—Read-Only Memory (CD-ROM)

For the 1990 census, the Public Law (P.L.) 94-171 file; an extract of STF 1B that presents selected statistics for blocks; and STF's 1A, 1C, 3A, 3B, and 3C are also available on CD-ROM. (One 4 3/4-inch CD-ROM, a type of optical or laser disc, can hold the contents of approximately 1,600 flexible diskettes, or three or four high-density computer tapes.)

Online Information Systems

The Census Bureau began CENDATATM, its online information service, in 1984. CENDATATM is accessible through two information vendors, CompuServe and DIALOG. A number of Census Bureau reports, in whole or in part, are offered online. For the 1990 census, CENDATATM provides up-to-date information about the availability of data products and carries selections of State, county, MA, and place data from the P.L. 94-171 tape file and STF's 1 and 3.

Custom Data Products

These products are for users who require unique tabulations that are not included in standard products; for example, information for locally defined geographic areas. Users also can order special microdata files.

The cost of preparing custom products must be paid by the users who request them. Any data that the Census Bureau provides in these products are subject to the same standards applied to other data to ensure that confidential individual information is not revealed.

User-Defined Areas Program (UDAP) Tabulations—

UDAP can provide a set of predefined data tables for locally defined areas that do not correspond to standard 1990 census geographic areas. Users identify the geographic areas of interest to them by delineating boundaries around groupings of census blocks on 1990 census County

Block Maps or by electronically submitting the geographic components of their area of interest. (A contact for more information is given in the "Sources of Assistance" section.)

Special Tabulations—The Census Bureau can prepare special data tabulations for any specific geographic or subject-matter area. Users should rely on standard reports, tapes, microfiche, or user-defined area tabulations whenever possible, since special tabulations tend to be substantially more expensive and take time to arrange and produce. (Contacts for more information are given in the "Sources of Assistance" section.)

GEOGRAPHIC PRODUCTS

Maps

Census Bureau maps are necessary for virtually all uses of small-area 1990 census data. They are needed to locate the specific geographic areas for which the census provides data and to study the spatial relationship of the data for analytic purposes. The Census Bureau prepares a variety of 1990 census maps. Among the most useful are these four series:

County Block Maps—These maps show census blocks and their numbers; boundaries for statistical and governmental entities, such as census tracts and places; and physical features. The P.L. 94-171 version of these maps also shows voting district boundaries in those States that furnished them. The maps are prepared on electrostatic plotters by county (or equivalent entity) with one or more map sheets each, depending on the size and shape of the area and the density of the block pattern. An average county requires 20 map sheets. The maps may be purchased from Customer Services.

County Subdivision Outline Maps—Maps in this State-based series present the boundaries of the counties, county subdivisions, places, American Indian and Alaska Native areas (including off-reservation trust lands), tribal designated statistical areas, and tribal jurisdiction statistical areas. Electrostatic-plotter copies are available for purchase from Customer Services. Also, they appear on multiple page-size sheets in the State reports of these series: 1990 CPH-1, 1990 CPH-2, 1990 CPH-5, 1990 CP-1, 1990 CP-2, 1990 CH-1, and 1990 CH-2.

Census Tract/Block Numbering Area (BNA) Outline Maps—Maps in this county-based series depict census tract or BNA boundaries and numbers, and the features underlying the boundaries. They also show governmental units in relation to the census tracts/BNA's. Customer Services sells electrostatic-plotter copies, and the Superintendent of Documents sells printed copies.

Voting District Outline Maps—Maps in this county-based series depict voting district boundaries (for those counties for which States furnished boundary information) and the features underlying the boundaries. They also show governmental unit boundaries in relation to the voting districts. They are prepared on electrostatic plotters and sold by Customer Services.

Geographic Publications

The *Geographic Identification Code Scheme* report in the 1990 CPH-R series shows the 1990 census geographic area codes and Federal information processing standards (FIPS) codes, as appropriate, for States, metropolitan areas, counties, county subdivisions, places, American Indian and Alaska Native areas, and other entities, along with some descriptive information about the codes. The code scheme also is offered on computer tape.

Machine-Readable Geographic Files

All 1990 census summary tape files include 1990 census geographic area codes, FIPS codes, certain area names, land and inland water area in square kilometers, geographic coordinates for an internal point for each entity, and other geographic information.

The Census Bureau developed an automated geographic data base, known as the TIGER (Topologically Integrated Geographic Encoding and Referencing) System, to produce the geographic products for the 1990 census. TIGER provides coordinate-based digital map information for the entire United States, Puerto Rico, the U.S. Virgin Islands, and the Pacific territories over which the United States has jurisdiction.

The TIGER System has significantly improved the utility of 1990 census maps and geographic reference products. Extract files generated from the TIGER System permit users, with appropriate software, to perform such tasks as linking the statistical data in the P.L. 94-171 file or the STF's and displaying selected characteristics on maps or a video display screen at different scales and with whatever boundaries they select for any geographic area of the country. For example, a map for a particular county could show the distribution of the voting age population by city block.

The first extract of selected geographic and cartographic information intended for computer applications, such as plotting maps and building geographic information systems, is called the TIGER/Line™ files. TIGER/Line™ files contain attributes for the segments of each boundary and feature (for example, roads, railroads, and rivers), including 1990 census geographic codes for adjacent areas, latitude/longitude coordinates of segment end points and the curvature of segments, the name and type of the feature, and the relevant census feature class code identifying the feature segment by category. TIGER/Line™ files also furnish address ranges and associated ZIP

Codes for each side of street segments in major urban areas; provide the names of landmarks, such as lakes and golf courses; and include other information.

TIGER/Line™ files and other TIGER System extracts, such as TIGER/Boundary™ and TIGER/DataBase™, are released on computer tape and, in some cases, CD-ROM. For information on TIGER extract files, contact Customer Services.

REFERENCE MATERIALS

The Census Bureau issues several reference publications for data users. Some are sold by the Superintendent of Documents; others are distributed free by Customer Services. Addresses and phone numbers for the Superintendent of Documents and Customer Services are given in the following section.

- *1990 Census of Population and Housing, Guide*. This guide, in the 1990 CPH-R report series, provides detailed information about all aspects of the census and a comprehensive glossary of census terms. Sold by the Superintendent of Documents, U.S. Government Printing Office.
- *1990 Census of Population and Housing Tabulation and Publication Program*. A free report describing 1990 census products, comparing 1990 products with those of 1980, and more. Request from Customer Services.
- *Census '90 Basics*. A free booklet covering how the 1990 census data were collected and processed, the full range of data products, the maps and geographic files, and more, but with less detail than the Guide (above). Request from Customer Services.
- *Census ABC's—Applications in Business and Community*. A free booklet that highlights key information about the 1990 census and illustrates a variety of ways the data can be used. Request from Customer Services.
- *Strength in Numbers*. A free, tabloid-size booklet designed to assist people in using 1990 census data in redistricting. Among other features, it includes illustrations of maps and Public Law 94-171 counts. Request from Customer Services.
- *TIGER: The Coast-to-Coast Digital Map Data Base*. A free booklet describing the structure and uses of the Census Bureau's TIGER System. Request from Customer Services.
- *Census and You*. The Census Bureau's monthly newsletter for data users. It reports on the latest 1990 census developments, selected new publications and computer tape files, other censuses and surveys, developments in services to users, and upcoming conferences and training courses. Subscriptions are sold by the Superintendent of Documents, U.S. Government Printing Office.

- *Monthly Product Announcement*. A free monthly listing of all new Census Bureau publications; microfiche; maps; data files on tape, diskettes, or CD-ROM; and technical documentation. To subscribe, contact Customer Services.

- *Census Catalog and Guide*. A comprehensive annual description of data products, statistical programs, and services of the Census Bureau. It provides abstracts of the publications, data files, microfiche, maps, and items online. In addition, the Catalog/Guide offers such features as information about censuses and surveys and telephone contact lists of data specialists at the Census Bureau, the State Data Centers, and other data processing service centers. It is sold by the Superintendent of Documents, U.S. Government Printing Office.

Users also can get listings of new Census Bureau products, updated daily, by subscribing to the *Daily List*. This information and selected statistics are available online through CENDATA™, the Census Bureau's online information service. For more information, contact Customer Services.

SOURCES OF ASSISTANCE

U.S. Bureau of the Census

The Census Bureau's Customer Services sells most of the machine-readable data products, microfiche, and maps described earlier. (The 1990 census printed reports are sold by the Superintendent of Documents, as noted below.) Also, users may consult with specialists at the Census Bureau's Washington headquarters and its 12 regional offices. From time to time, the specialists also conduct workshops, seminars, and training courses.

Washington, DC, Contacts—To order products, for a telephone contacts list of Census Bureau specialists, and for general information: Customer Services, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-4100 (fax number, 301-763-4794).

For User-Defined Areas Program (UDAP) information: UDAP Staff, Decennial Planning Division, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-4282.

For special tabulation information: Population—Rosemarie Cowan, Population Division, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-5476; Housing—William Downs, Housing and Household Economic Statistics, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-8553.

Regional Office Contacts—

Atlanta, GA	404-347-2274
Boston, MA	617-565-7078
Charlotte, NC	704-371-6144
Chicago, IL	312-353-0980
Dallas, TX	214-767-7105
Denver, CO	303-969-7750
Detroit, MI	313-354-4654
Kansas City, KS	913-236-3711
Los Angeles, CA	818-904-6339
New York, NY	212-264-4730
Philadelphia, PA	215-597-8313
Seattle, WA	206-728-5314

Superintendent of Documents, U.S. Government Printing Office

The Superintendent of Documents handles the sale of most of the Federal Government's publications, including 1990 census reports. To order reports and for information: Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, telephone 202-783-3238.

Other Sources of Products and Services

State Data Centers—The Census Bureau furnishes data products, training in data access and use, technical assistance, and consultation to all States, the District of Columbia, Guam, Puerto Rico, and the U.S. Virgin Islands. State Data Centers, in turn, offer publications for reference, printouts from computer tape, specially prepared reports, maps, and other products and assistance to data users. For a list of the State Data Centers, see the *Census Catalog and Guide* or contact Customer Services. The list also notes organizations in States participating in the Census Bureau's Business/Industry Data Center (BIDC) Program. The BIDC's help business people, economic development planners, and other data users obtain and use data.

National Services Program—The National Services Program (NSP) provides data-related services for nationally based nonprofit organizations that represent minorities or other segments of the population who have been historically undercounted in decennial censuses. The participants include social service, business, professional, civil rights, educational, and religious groups. Through a pilot project, the National Services Information Center (NSIC) Initiative, three of these nonprofit groups now offer their clientele reports, computer tape printouts, and other information from the Census Bureau. To learn more about the NSP and the NSIC, write to the National Services Program, Data User Services Division, Bureau of the Census, Washington, DC 20233, or call 301-763-1384.

National Clearinghouse—The National Clearinghouse for Census Data Services is a listing of private companies and other organizations that offer assistance in obtaining and

using data released by the Census Bureau. For a list of participants in the National Clearinghouse, see the *Census Catalog and Guide* or contact Customer Services.

Depository Libraries—There are 1,400 libraries that receive (from the Government Printing Office) Federal publications that they think their patrons will need. Often some of these publications are Census Bureau reports. The Census Bureau provides free reports to an additional 120 census depository libraries. Also, many libraries purchase census reports and maps for their areas. The *Census Catalog and Guide* includes a list of all depository libraries.

OTHER CENSUS BUREAU RESOURCES

The Census Bureau has more to offer than just the results of the census of population and housing. Through other censuses, surveys, and estimates programs, it compiles and issues (in reports, computer tape, and other media) data on subjects as diverse as appliance sales, neighborhood conditions, and exports to other countries. Here are examples of the information published about—

- *People*: Age, race, sex, income, poverty, child care, child support, fertility, noncash benefits, education, commuting habits, pension coverage, unemployment, ancestry.
- *Business and industry*: Number of employees, total payroll, sales and receipts, products manufactured or sold.
- *Housing and construction*: Value of new construction, numbers of owners and renters, property value or rent paid, housing starts, fuels used, mortgage costs.
- *Farms*: Number, acreage, livestock, crop sales.
- *Governments*: Revenues and expenditures, taxes, employment, pension funds.
- *Foreign trade*: Exports and imports, origin and destination, units shipped.
- *Other nations*: Population, birth rates, death rates, literacy, fertility.

The other censuses, such as agriculture, retail trade, manufactures, and governments, are collected for years ending in "2" and "7." Surveys and estimates programs generate results as often as every month.

Many of the monthly "economic indicators" that measure how the Nation is doing come directly or indirectly from the Census Bureau. Examples: employment and unemployment; housing starts; wholesale and retail trade; manufacturers' shipments, inventories, and orders; export and import trade; and sales of single-family homes.

The other statistical activities of the Census Bureau are described below. Data users will find more information about them and descriptions of their data products in the

annual *Census Catalog and Guide*. Also, special guides and brochures are prepared for most of them. Contact the Census Bureau's Customer Services for more information.

Current Demographic and Housing Programs

Two types of current programs complement the 10-year census: population estimates and surveys. The total population of the United States is estimated monthly; the population of States, counties, and metropolitan areas is estimated annually; and the population of places and other governmental units is estimated every 2 years. Projections of future population are made at the national and State levels.

The Census Bureau's many household surveys update population and housing characteristics at the national level and sometimes for States and metropolitan areas, as well. These surveys also obtain many characteristics not included in the 10-year census. The Current Population Survey is taken monthly; the American Housing Survey national sample is taken biennially; the American Housing Survey metropolitan sample is taken in 44 areas, 11 per year in a 4-year cycle; most other surveys are annual or less frequent.

Economic Censuses and Surveys

The economic censuses provide statistics about business establishments once every 5 years, covering years ending in "2" and "7." The 1987 Economic Censuses include the censuses of retail trade, wholesale trade, service industries, transportation, manufactures, mineral industries, and construction industries. Also included are related programs, such as statistics on minority- and women-owned businesses, enterprise statistics, and censuses of economic activity in Puerto Rico and some of the outlying areas under U.S. jurisdiction.

Several key statistics are tabulated for all industries covered in the censuses. They are number of establishments, number of employees, payroll, and measure of output (sales or receipts, and value of shipments or of work done). Other items vary from sector to sector.

The Census Bureau also has programs that provide current statistics on such measures as total sales of particular kinds of businesses or production of particular products. These programs include monthly, quarterly, and annual surveys, the results of which appear in publication series such as *Current Business Reports* and *Current Industrial Reports*. The County Business Patterns program offers annual statistics based on data compiled primarily from administrative records.

Agriculture Census and Surveys

The agriculture census is conducted concurrently with the economic censuses. It is the only source of uniform agriculture data at the county level. It provides data on such subjects as the number and size of farms; land use and ownership; livestock, poultry, and crops; and value of products sold.

Results of three surveys—the 1988 Farm and Ranch Irrigation Survey, 1988 Census of Horticulture Specialties, and 1988 Agricultural Economics and Land Ownership Survey—are published in conjunction with the 1987 Census of Agriculture. Also, the Census Bureau regularly issues reports from a survey on cotton ginnings.

Governments Census and Surveys

The census of governments, also for years ending in "2" and "7," covers all types of governments: Federal, State, county, municipal (place), township (county subdivision), school district, and special district. It provides data on such subjects as number of public employees, payrolls, revenue, and expenditures.

Annual and quarterly surveys cover the same principal subjects but generate data only for States and the largest local governments.

Foreign Trade Statistics

Monthly U.S. merchandise trade data compiled by the Census Bureau summarize export and import transactions and are based on the official documents filed by shippers and receivers. These figures reflect the flow of merchandise but not intangibles like services and financial commitments. The trade figures trace commodity movements out of and into the U.S. Customs jurisdiction, which includes Puerto Rico and the U.S. Virgin Islands as well as the 50 States and the District of Columbia. Data are published separately on trade between the United States and Puerto Rico, the U.S. Virgin Islands, and other U.S. possessions.

Other Statistical Activities

The Census Bureau also offers international data. It maintains an international data base which is available to the public on computer tape and is used to produce the biennial *World Population Profile* report. It prepares studies dealing with the demographic and economic characteristics of other countries and world regions.

Statistical compendia are another important data product. These publications (sometimes also offered in machine-readable form) draw data from many sources and reorganize them for convenient use. The most widely used compendia are the annual *Statistical Abstract of the United States*, the *County and City Data Book* (published every 5 years), and the *State and Metropolitan Area Data Book* (published approximately every 4 years).

Figure 1. 1990 Census Content

100-PERCENT COMPONENT

Population

Household relationship
Sex
Race
Age
Marital status
Hispanic origin

Housing

Number of units in structure
Number of rooms in unit
Tenure—owned or rented
Value of home or monthly rent
Congregate housing (meals included in rent)
Vacancy characteristics

SAMPLE COMPONENT

Population

Social characteristics:

Education—enrollment and attainment
Place of birth, citizenship, and year of entry into U.S.
Ancestry
Language spoken at home
Migration (residence in 1985)
Disability
Fertility
Veteran status

Economic characteristics:

Labor force
Occupation, industry, and class of worker
Place of work and journey to work
Work experience in 1989
Income in 1989
Year last worked

Housing

Year moved into residence
Number of bedrooms
Plumbing and kitchen facilities
Telephone in unit
Vehicles available
Heating fuel
Source of water and method of sewage disposal
Year structure built
Condominium status
Farm residence
Shelter costs, including utilities

NOTE: Questions dealing with the subjects covered in the 100-percent component were asked of all persons and housing units. Those covered by the sample component were asked of a sample of the population and housing units.

Figure 2. 1990 Census Printed Reports

Series	Title	Report(s) issued for	Description	Geographic areas
1990 CENSUS OF POPULATION AND HOUSING (1990 CPH)				
100-Percent Data				
1990 CPH-1	Summary Population and Housing Characteristics	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Population and housing unit counts, and summary statistics on age, sex, race, Hispanic origin, household relationship, units in structure, value and rent, number of rooms, tenure, and vacancy characteristics	Local governmental units (i.e., counties, places, and towns and townships), other county subdivisions, and American Indian and Alaska Native areas
1990 CPH-2	Population and Housing Unit Counts	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Total population and housing unit counts for 1990 and previous censuses	States, counties, county subdivisions, places, State component parts of metropolitan areas (MA's) and urbanized areas (UA's), and summary geographic areas (for example, urban and rural)
100-Percent and Sample Data				
1990 CPH-3	Population and Housing Characteristics for Census Tracts and Block Numbering Areas	MA's, and the nonmetropolitan balance of each State, Puerto Rico, and U.S. Virgin Islands	Statistics on 100-percent and sample population and housing subjects	In MA's: census tracts/block numbering areas (BNA's), places of 10,000 or more inhabitants, and counties. In the remainder of each State: census tracts/BNA's, places of 10,000 or more, and counties
1990 CPH-4	Population and Housing Characteristics for Congressional Districts of the 103rd Congress	States and DC	Statistics on 100-percent and sample population and housing subjects	Congressional districts (CD's) and, within CD's, counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, and American Indian and Alaska Native areas
Sample Data				
1990 CPH-5	Summary Social, Economic, and Housing Characteristics	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Statistics generally on sample population and housing subjects	Local governmental units (i.e., counties, places, and towns and townships), other county subdivisions, and American Indian and Alaska Native areas
1990 CENSUS OF POPULATION (1990 CP)				
100-Percent Data				
1990 CP-1	General Population Characteristics	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	States, counties, places of 1,000 or more inhabitants, county subdivisions of 1,000 or more inhabitants in selected States, State parts of American Indian areas, Alaska Native areas, and summary geographic areas such as urban and rural

Figure 2. 1990 Census Printed Reports—Con.

Series	Title	Report(s) issued for	Description	Geographic areas
1990 CENSUS OF POPULATION (1990 CP)—Con.				
100-Percent Data—Con.				
1990 CP-1-1A	General Population Characteristics for American Indian and Alaska Native Areas	U.S.	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	American Indian and Alaska Native areas; i.e., American Indian reservations, off-reservation trust lands, tribal jurisdiction statistical areas (Oklahoma), tribal designated statistical areas, Alaska Native village statistical areas, and Alaska Native Regional Corporations
1990 CP-1-1B	General Population Characteristics for Metropolitan Areas	U.S.	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	Individual MA's. For MA's split by State boundaries, summaries are provided both for the parts and for the whole MA
1990 CP-1-1C	General Population Characteristics for Urbanized Areas	U.S.	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	Individual UA's. For UA's split by State boundaries, summaries are provided both for the parts and for the whole UA
Sample Data				
1990 CP-2	Social and Economic Characteristics	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Statistics generally on sample population subjects	States (including summaries such as urban and rural), counties, places of 2,500 or more inhabitants, county subdivisions of 2,500 or more inhabitants in selected States, Alaska Native areas, and the State portion of American Indian areas
1990 CP-2-1A	Social and Economic Characteristics for American Indian and Alaska Native Areas	U.S.	Statistics generally on sample population subjects	American Indian and Alaska Native areas, as for CP-1-1A
1990 CP-2-1B	Social and Economic Characteristics for Metropolitan Areas	U.S.	Statistics generally on sample population subjects	Individual MA's, as for CP-1-1B
1990 CP-2-1C	Social and Economic Characteristics for Urbanized Areas	U.S.	Statistics generally on sample population subjects	Individual UA's, as for CP-1-1C
1990 CP-3	Population Subject Reports	Selected subjects	Approximately 30 reports on population census subjects such as migration, education, income, the older population, and racial and ethnic groups	Generally limited to the U.S., regions, and divisions; for some reports, other highly populated areas such as States, MA's, counties, and large places

Figure 2. 1990 Census Printed Reports—Con.

Series	Title	Report(s) issued for	Description	Geographic areas
1990 CENSUS OF HOUSING (1990 CH)				
100-Percent Data				
1990 CH-1	General Housing Characteristics	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy characteristics	States, counties, places of 1,000 or more inhabitants, county subdivisions of 1,000 or more inhabitants in selected States, State parts of American Indian areas, Alaska Native areas, and summary geographic areas such as urban and rural
1990 CH-1-1A	General Housing Characteristics for American Indian and Alaska Native Areas	U.S.	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy characteristics	American Indian and Alaska Native areas; i.e., American Indian reservations, trust lands, tribal jurisdiction statistical areas (Oklahoma), tribal designated statistical areas, Alaska Native village statistical areas, and Alaska Native Regional Corporations
1990 CH-1-1B	General Housing Characteristics for Metropolitan Areas	U.S.	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy characteristics	Individual MA's. For MA's split by State boundaries, summaries are provided both for the parts and for the whole MA
1990 CH-1-1C	General Housing Characteristics for Urbanized Areas	U.S.	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy characteristics	Individual UA's. For UA's split by State boundaries, summaries are provided both for the parts and for the whole UA
Sample Data				
1990 CH-2	Detailed Housing Characteristics	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Statistics generally on sample housing subjects	States (including summaries such as urban and rural), counties, places of 2,500 or more inhabitants, county subdivisions of 2,500 or more inhabitants in selected States, Alaska Native areas, and State parts of American Indian areas
1990 CH-2-1A	Detailed Housing Characteristics for American Indian and Alaska Native Areas	U.S.	Statistics generally on sample housing subjects	American Indian and Alaska Native areas, as in 1990 CH-1-1A
1990 CH-2-1B	Detailed Housing Characteristics for Metropolitan Areas	U.S.	Statistics generally on sample housing subjects	Individual MA's, as in 1990 CH-1-1B
1990 CH-2-1C	Detailed Housing Characteristics for Urbanized Areas	U.S.	Statistics generally on sample housing subjects	Individual UA's, as in 1990 CH-1-1C
1990 CH-3	Housing Subject Reports	Selected subjects	Approximately 10 reports on housing census subjects such as structural characteristics and space utilization	Generally limited to U.S., regions, and divisions; for some reports, other highly populated areas such as States, MA's, counties, and large places

Figure 3. 1990 Census Summary Tape Files

Summary Tape File
(STF 1A, 1B, etc.)
and data type
(100 percent or
sample)¹

Geographic areas

Description

STF 1 (100 percent)	A ^{2 3}	States, counties, county subdivisions, places, census tracts/block numbering areas (BNA's), block groups (BG's). Also Alaska Native areas and State parts of American Indian areas	Over 900 cells/items of 100-percent population and housing counts and characteristics for each geographic area
	B ^{2 3}	States, counties, county subdivisions, places, census tracts/BNA's, BG's, blocks. Also Alaska Native areas and State parts of American Indian areas	
	C ³	U.S., regions, divisions, States (including summaries such as urban and rural), counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, metropolitan areas (MA's), urbanized areas (UA's), American Indian and Alaska Native areas	
	D	Congressional districts (CD's) of the 103rd Congress by State; and within each CD: counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, Alaska Native areas, and American Indian areas	
STF 2 (100 percent)	A	In MA's: counties, places of 10,000 or more inhabitants, and census tracts/BNA's. In the remainder of each State: counties, places of 10,000 or more inhabitants, and census tracts/BNA's	Over 2,100 cells/items of 100-percent population and housing counts and characteristics for each geographic area. Each of the STF 2 files will include a set of tabulations for the total population and separate presentations of tabulations by race and Hispanic origin
	B	States (including summaries such as urban and rural), counties, places of 1,000 or more inhabitants, county subdivisions, State parts of American Indian areas, and Alaska Native areas	
	C	U.S., regions, divisions, States (including summaries such as urban and rural), counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, all county subdivisions in New England MA's, American Indian and Alaska Native areas, MA's, UA's	
STF 3 (Sample)	A ^{2 3}	States, counties, county subdivisions, places, census tracts/BNA's, BG's. Also Alaska Native areas and State parts of American Indian areas	Over 3,300 cells/items of sample population and housing characteristics for each geographic area
	B ³	Five-digit ZIP Codes within each State	
	C ³	U.S., regions, divisions, States, counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, American Indian and Alaska Native areas, MA's, UA's	
	D	CD's of the 103rd Congress by State; and within each CD: counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States	

Figure 3. 1990 Census Summary Tape Files—Con.

Summary Tape File
(STF 1A, 1B, etc.)
and data type
(100 percent or
sample)¹

	Geographic areas	Description
STF 4 (Sample)	A In MA's: counties, places of 10,000 or more inhabitants, and census tracts/BNAs. In the remainder of each State: counties, places of 10,000 or more inhabitants, and census tracts/BNAs	Over 8,500 cells/items of sample population and housing characteristics for each geographic area. Each of the STF 4 files will include a set of tabulations for the total population and separate presentations of tabulations by race and Hispanic origin.
	B State (including summaries such as urban and rural), counties, places of 2,500 or more inhabitants, county subdivisions of 2,500 or more inhabitants in selected States, all county subdivisions in New England MA's, State parts of American Indian areas, and Alaska Native areas	
	C U.S., regions, divisions, States (including urban and rural and metropolitan and nonmetropolitan components), counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, all county subdivisions in New England MA's, American Indian and Alaska Native areas, MA's, UA's	

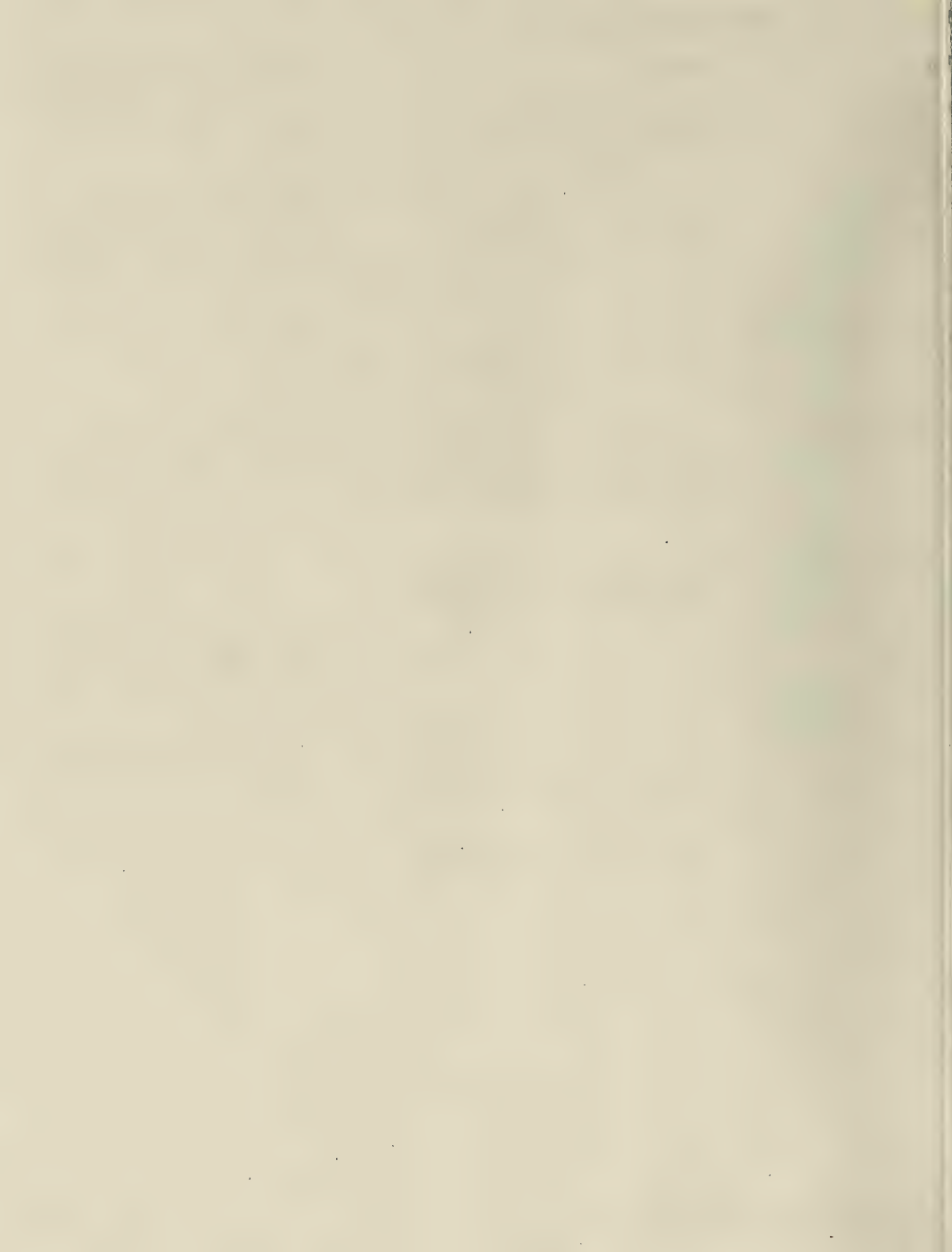
¹Similar STF's will be prepared for Puerto Rico and the U.S. Virgin Islands.

²Also available on microfiche. STF 1B microfiche provides only part of the data for blocks and other areas in the tape file.

³Also available on laser disc (CD-ROM). STF 1B CD-ROM presents the same file extract as STF 1B microfiche.

Figure 4. Other 1990 Census Data Products

Title	Description	Geographic areas
Subject Summary Tape Files	About 20 computer tape files used to produce the subject reports (1990 CP-3 and 1990 CH-3 series). On the average, a file is the source of two subject reports	U.S., regions, divisions, States, metropolitan areas (MA's), and large counties and places
Public Law 94-171 Data File (redistricting data)	Counts by total, race, and Hispanic origin for the total population and population 18 years old and over, and counts of housing units. Available on tape, CD-ROM, and paper listings	States, counties, county subdivisions, places, census tracts/block numbering areas (BNA's), block groups (BG's), and blocks; voting districts where States have identified them for the Census Bureau; and American Indian and Alaska Native areas
Census/Equal Employ- ment Opportunity (EEO) Special File	Sample tabulations showing detailed occupa- tions and educational attainment data by age; cross tabulated by sex, Hispanic origin, and race	Counties, MA's, places of 50,000 or more inhabitants
County-to-County Migration File	Summary statistics for all intra-state county-to- county migration streams and significant inter- state county-to-county migration streams. Each record will include codes for the geographic area of destination, and selected characteris- tics of the persons who made up the migration stream	States, counties
Public Use Microdata Sample (PUMS) Files	Machine-readable files containing a sample of individual long-form census records showing most population and housing characteristics but with identifying information removed	
5 Percent—PUMS Areas		County groups, counties, county subdivi- sions, and places with 100,000 or more inhabitants
1 Percent—Metro- politan Areas (1990)		MA's and other large areas with 100,000 or more inhabitants
User-Defined Areas Tabulations	A set of standard tabulations provided on print- outs, tapes, or other products with maps and narrative (if requested)	User-defined areas created by aggregating census blocks
Special Tabulations	User-defined tabulations for specified geo- graphic areas provided on printouts, tapes, or other products	User-defined areas or standard areas



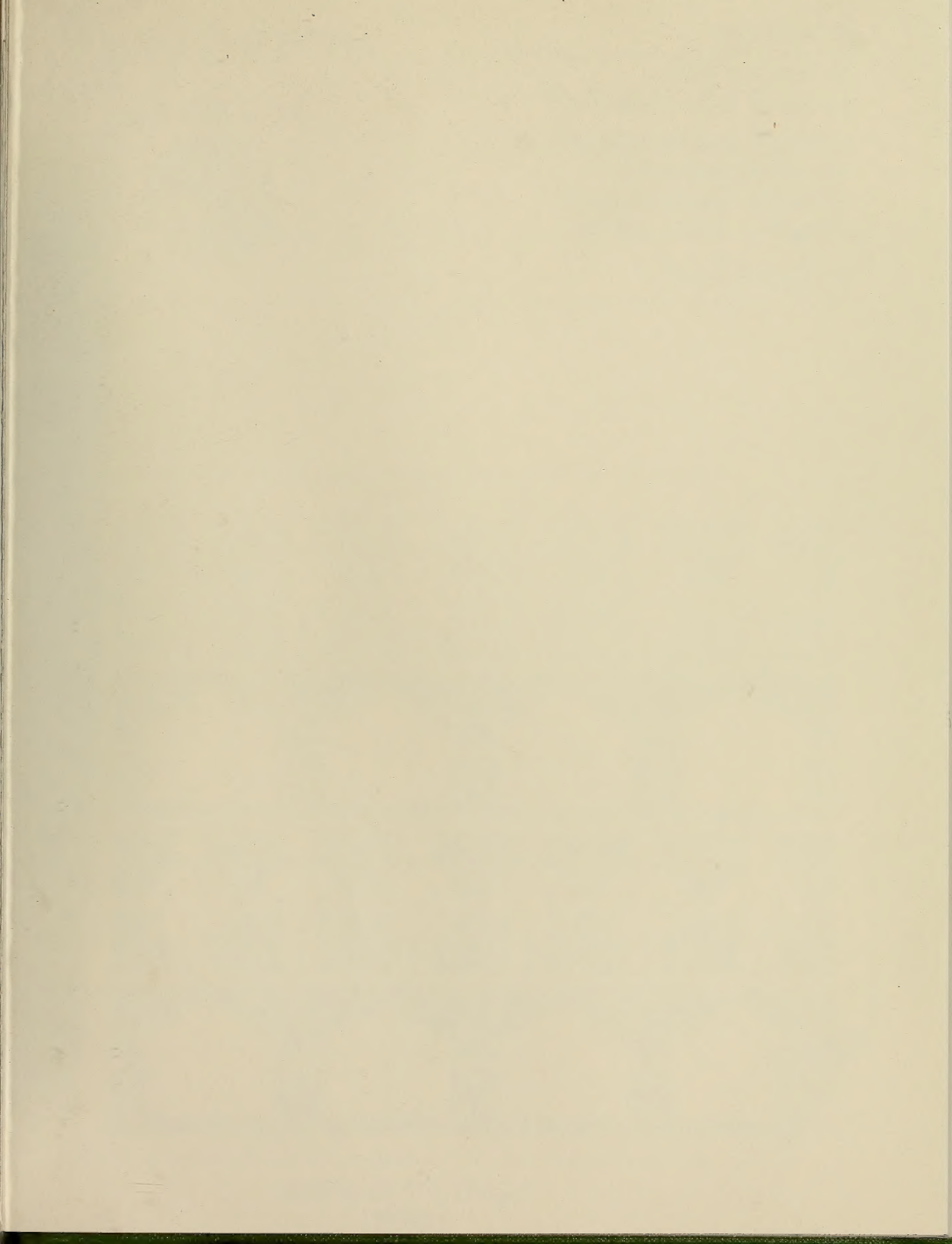
APPENDIX G.

Maps

Maps showing geographic areas for this report begin on page G-2.







For
Not to be